



e-MuM[®] *electronic Medication usage Monitoring*

Executive Summary

Vision - To support and promote current health program through technology.

The e-MuM[®] solution is for decision makers in the public and private health care sector concerned with making a difference in TB, HIV/AIDS and chronic disease management. The solution e-MuM[®] is a clinical and administrative patient management and decision support system incorporating a monitoring tool with an 'easy-to-use' interface. The e-MuM[®] solution is at the forefront of meeting identified needs that currently exist within the management of chronic diseases in an emerging market environment. Unlike other competitors, whose products involve ongoing additional costs, e-MuM provides a complete, 'all-in-one' package.

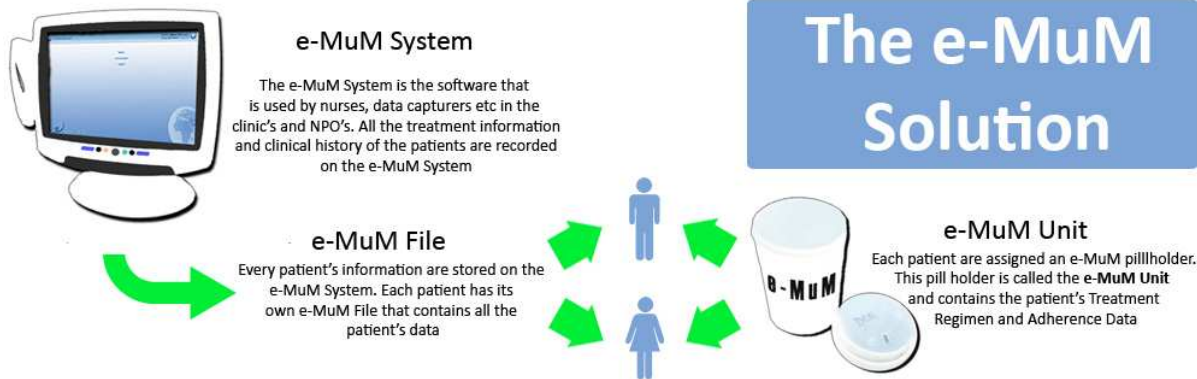


Figure 1 - Patient Data Flow

Geo-ICT Health (GIH), a BEE company based in the Western Cape and Gauteng, supply and implement the e-MuM[®] solution to public and private health care providers within South Africa and the Southern African Development Community (SADC) countries. The holistic GIH offering includes project management for the rollout of its health solutions, as well as full training and change management services to medical staff and data capture officers to assure the optimal use of the client's available resources. GIH provide services to synchronize the data collected from the respective sites to a central management level to improve the quality of statistics (monitoring and evaluation data) and thereby to improve the overall efficiency of the health care delivery system.

Our methodology at GIH is to partner with our clients with a vision to improve the quality of care in their health system and consequently improve the overall efficiency of the health care delivery system.

The National Strategic Plan for HIV and AIDS for 2007-2011 includes a focus area for TB and HIV and specifically states that "efforts to ensure that people that are on ARV or TB treatment adhere to their treatment", must be stepped up. Towards this end e-MuM[®] aligns with the current and pressing need.

The e-MuM[®] Solution

Modules of the solution cover three levels of the health/wellness ecosystem – patient, primary health care and reporting (district, provincial, national and international governing bodies) level. Figure 1 and 2 illustrate the flow of patient data/information and the available modules on primary health care level.

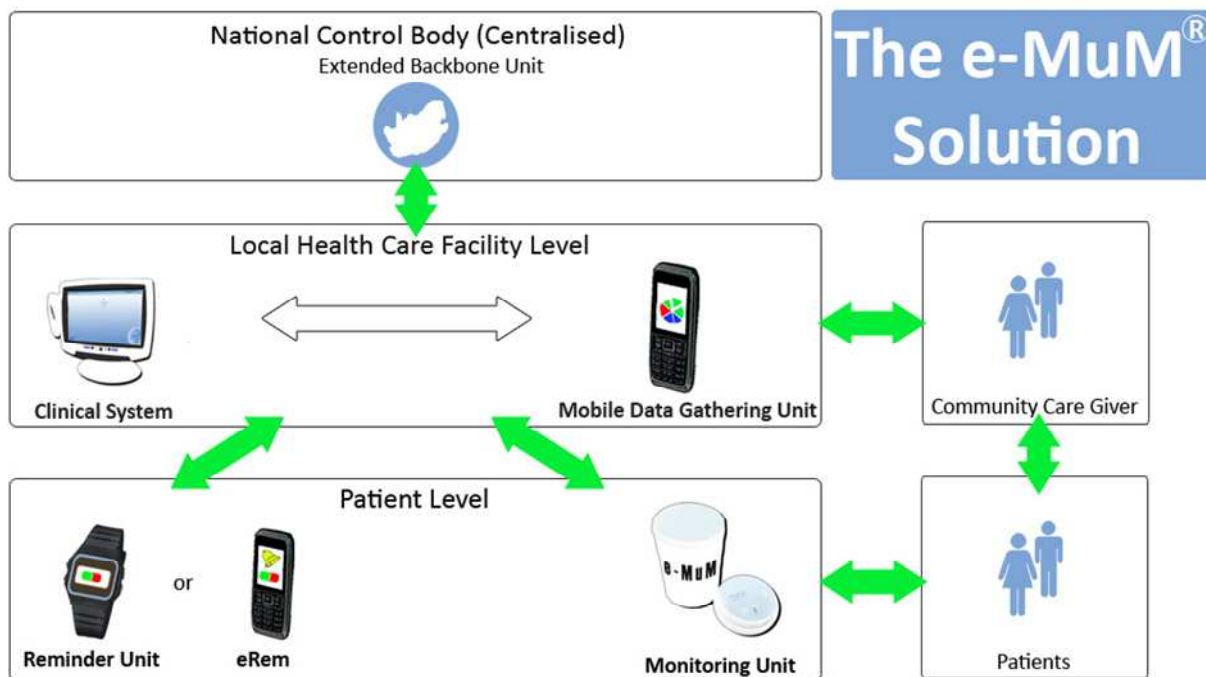


Figure 2 - e-MuM[®] Three Level Solution Offering

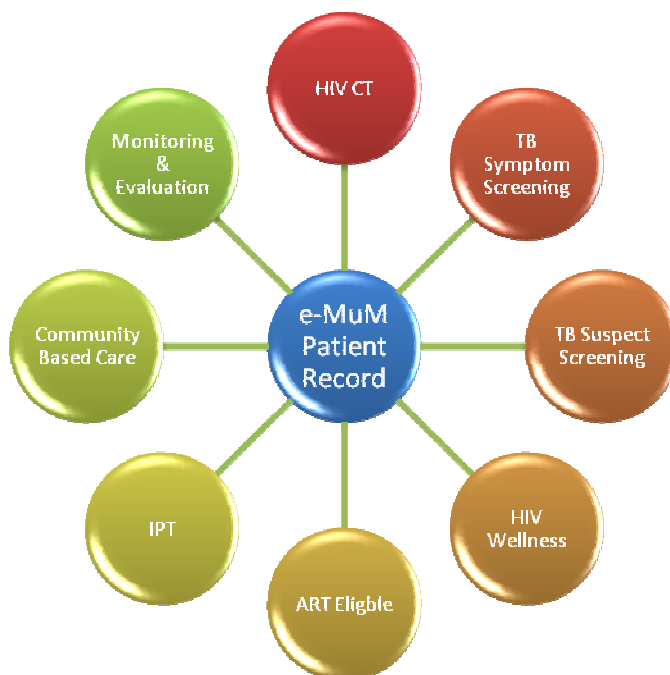


Figure 3 - e-MuM[®] Modules on Primary Health Care (clinic) Level

e-MuM's Value Proposition

The e-MuM solution is aligned with the patient and health care provider's needs. The proposition is not to replace any existing procedure or program but only to assist and strengthen the current site specific approaches. Our value proposition is to:

1. Protect treatment lines (programs) and the sustainability thereof;
2. Strengthen administrative and clinical decision-making ;
3. Improve data and patient statistic quality on all levels;
4. Improve the means to understand viral resistance behaviour;

through the:

- lowering of medication interruption rate and defaulting percentage;
- method to determine whether patient is adherent to medication regimen;
- make transferral of patient data with patient possible (increased patient mobility);
- assist in the monitoring of patient visits by home based health workers;
- increase the accuracy and reliability of data;
- remind patient of clinic visits;
- utilisable as a tool for benefactors to audit the application of funds;
- the utilisation of the e-MuM solutions will enhance ethical, economic and management decision making capabilities which arise in cases where patients that are on ARV's, as a result of their illness, obtain access to disability grants and who subsequently stand to lose them as a result of restored health.

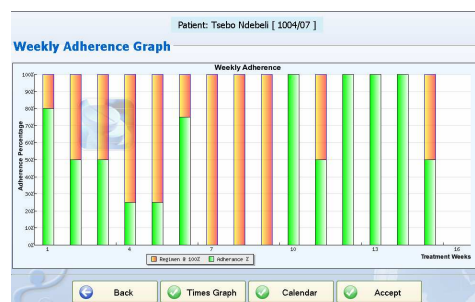
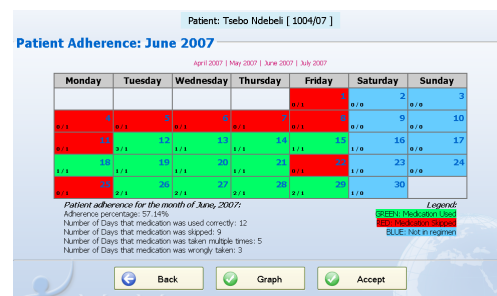


Figure 4 - The adherence module. Calendar and weekly adherence view.

Conclusion

The development of resistance to individual drugs in chronic disease regimens may have serious consequences on the long term effectiveness of the treatment programs. Integrating the e-MuM[®] solution as a module into the current site specific programs will strengthen the clinical and management decision making in the public and private health system. In achieving this, the e-MuM solution will play a paramount role in strengthening the health care provider's proposition to end-users.

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