GVIRF 2014: Gene	
	im Hombach (WHO), Angela Hwang (BMGF)
Session Outline	Discussants: Lee Hall, Chris Wilson, Jean-Marie Okwo-Bele
Objectives of the	General conclusions and specific highlights from the first GVIRF
session	
Main outcome	
Summary	Discussants reminded participants that this first GVIRF was held in the context of the GVAP and
	its mission. To achieve GVAP goals, innovation is needed in every domain, as documented by the
	GVIRF agenda, that was at the crossroads of science, technology and delivery sciences.
	The first day did highlight the challenges in vaccine development, as for many target vaccines,
	non-natural immune responses will need to be elicited, as natural immune responses are
	inadequate for protection. Traditional vaccine technologies have failed, and recent advances in
	in technology, such as agnostic antigen discovery, immunogen design, reverse vaccinology
	combined with enhanced immune monitoring provide unprecedented potential to overcome
	current limitations. Preferred product characteristics were highlighted as an important strategy
	on how the public health community could "de-risk" complex innovation paths. Nevertheless, new vaccines may be eliciting only modest vaccine efficacy which requires new thinking in
	vaccine regulation and public health use of such products. Similarly, there is significant
	innovation space for second-generation vaccines, and the need to better describe this space and
	to systematically assess the added value of such candidates in clinical trials.
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	The second day focussed on implementation science and the driving role immunization can take
	in the global public health agenda, in particular in relation to universal health coverage. Despite
	successes, research needs to help immunization programmes to get even better, to make a
	stronger economic case, and to measure programme performance more rigorously. Strong case
	were made for the further development and implementation of nominal electronic registries, an
	the potential to link them to vital registration systems. More local data for policy and
	performance improvement should follow there. The need for local and contextual research
	capacity was highlighted. Progress in disease burden reduction has been unequal, and maternal
	and neonatal health improvement is lagging. Forum participants issued a call to further explore
	the potential from maternal immunization and remove obstacles to implementation.
	The third day addressed aspects of innovation and regulation. Difficult targets in vaccine
	development discussed on day 1 may increasingly become achievable through highly expanded
	set of discovery technologies, that now need to be combined with advanced immune monitoring
	capabilities in human subjects. Critical will be the understanding of biological concepts that can
	be applied more widely. Iterative approaches in doing human studies require careful
	consideration, and will require expanded clinical trial capabilities. There is also a need to
	manufacture immunogens that meet rigorous standards more quickly. A strong case was issued
	for increased investments into regulatory science capability also in less resourced countries,
	combined with the creation of centres of excellence. While regulatory decision are national and
	contextual from a risk-benefit perspective, there is a need for information sharing among
	authorities.
	Finally, partnerships need to be forged among stakeholders the Forum embodies to translate
	innovation to practice. Inefficiencies in the current innovation landscape was documented using
	the patent landscape. Comprehensive partnerships with academicians grounded in what is
	needed from industry and regulatory are needed; with public health sciences to tell what would
	be useful, practical, affordable, and scalable. If users and countries can't afford to buy our
	innovations, there will be no real benefit. Funders and countries alike need to be strong partner
	The Forum did provide a clear message that together we can achieve the vision of the Decade of
	Vaccines, of a world in which all individuals and communities enjoy lives free from vaccine-
	preventable diseases.
Key references	
or quotes	
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