







Welcome and Opening Remarks:

Prof Brendan Murphy, Australian Government Chief Medical Officer Dr Daniel Grant, CEO, MTP Connect

Acknowledgement of Country



Aims of the Workshop

- Bring together key Australian stakeholders to discuss opportunities and challenges associated with research, development and commercialisation of novel antimicrobial therapies and related technologies in Australia, as a follow-up to the AMR Industry workshop which took place in Sydney in August 2019
- Stakeholders are from all parts of the MTP sector commonwealth, state and territory governments, industry, NGOs and key academic institutions involved in AMR research

FOUR KEY TOPICS:

Antimicrobial R&D, translation and commercialisation

International partnerships and collaborations

Regulation of antimicrobials and regulatory incentives

Pricing & reimbursement policy framework

Outcomes of the Workshop

Raise awareness of the AMR challenges, develop a white paper and foster relationships and ongoing collaboration towards longer term stakeholder engagement with a credible, stronger, whole of sector approach

We welcome your participation and thank you in advance for your significant contribution to this important dialogue



National AMR strategy

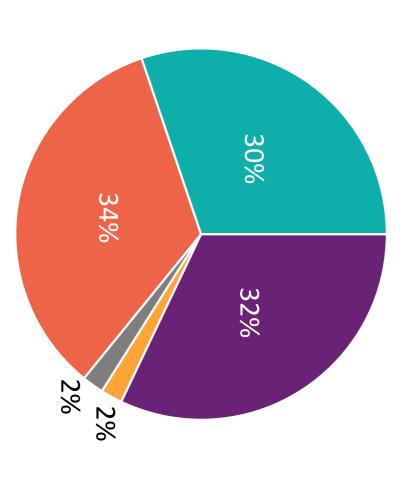
- The Commonwealth Government's first National AMR strategy 2015-2019 was released in 2015
- The new National AMR strategy will be finalised by the end of 2019. This workshop provides the opportunity to inform the implementation plan
- The first industry AMR Workshop was held in August 2019 with participants developing an AMR Industry Position paper highlighting issues under the four themes we will discuss today





Workshop Participants

Participants represent the Commonwealth, state and territory governments, researchers/clinicians, industry, health services and patient advocacy

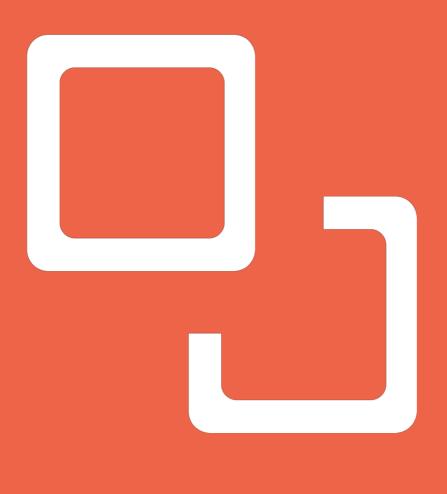


- Government Representatives
- Health Services
- Patient Advocacy
- Industry Representatives
- Universities/Researchers/Clinicians



Agenda

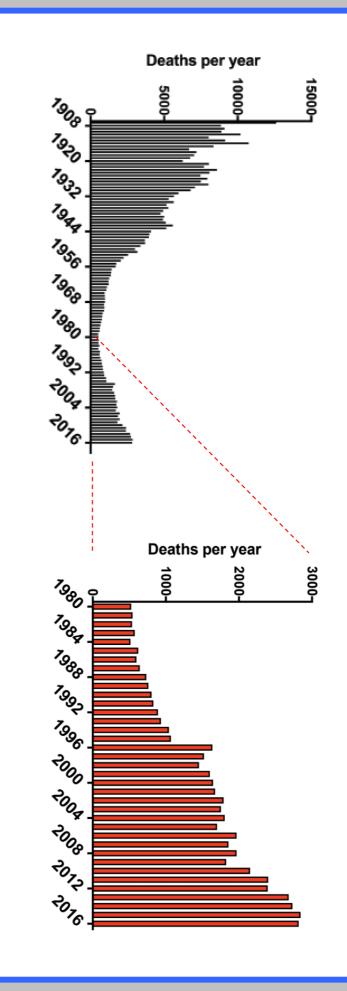
9:30 - 10:00 10:00 - 10:15 10:15 - 11:20 11:20 - 12:00 12:00 - 13:00 13:00 - 13:50	Workshop format: 6 hours in length (4 facilitated sessions with 1.5 hours break) from 10:00 until 16:00 Arrivals and registration Welcome and introductions Session 1: R&D translation and commercialization Session 2: International partnerships and collaborations Lunch break Session 3: Regulation of antimicrobials
30 - 10:00 :00 - 10:15 :15 - 11:20 :20 - 12:00	Arrivals and registration Welcome and introductions Session 1: R&D translation and commercialization Session 2: International partnerships and collaborations
11:20 - 12:00	Session 2: International partnerships and collaborations
12:00 - 13:00	Lunch break
13:00 - 13:50	Session 3: Regulation of antimicrobials
13:50 - 14:20	Break
14:20 - 15:30	Session 4: Pricing, reimbursement and supply chain
15:30 - 16:00	Synthesis, summary and close



Session 1:
R&D Translation and
Commercialisation



INFECTIOUS DISEASES DEATHS IN AUSTRALIA



1980 -> 2016

Median age (+8 years)
Population increase (2x)

Antibiotic resistance

TOTAL DEATHS (2016)

25% cardiac disease

25% cancer

10% infectious disease*

7% injury + suicide

POPULATION ADJUSTED

cardiac 50% down

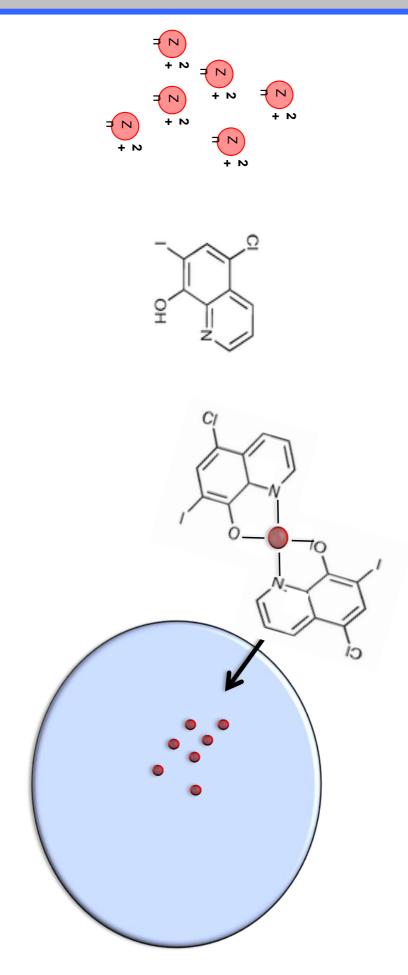
cancer 30% up

infectious 291% up

^{*}underlying cause

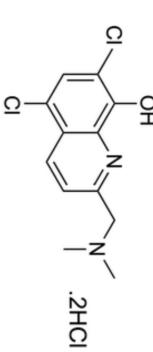
REPURPOSING IONOPHORES

- > lonophores "mask" the charge of metal ions
- > Facilitates the transport of metal ions across cell membranes



REPURPOSING THE IONOPHORE PBT2





PBT2

- ASX and NASDAQ listed neuronal degeneration Biotech (Melbourne)
- > PBT2 composition of matter patent (US7619091to Dec 2025)

REPURPOSING THE IONOPHORE PBT2

- ≥2 x Phase 1 human trials
- up to 800 mg/day for 7 days (oral)
- safe and well tolerated
- ➤ 2 x Phase 2 human trials
- Alzheimer's and Huntinton's disease
- up to 250 mg/day for 12-52 weeks (oral)
- safe and well tolerated

Safety, tolerability, and efficacy of PBT2 in Huntington's disease: a phase 2, randomised, double-blind, placebo-controlled trial



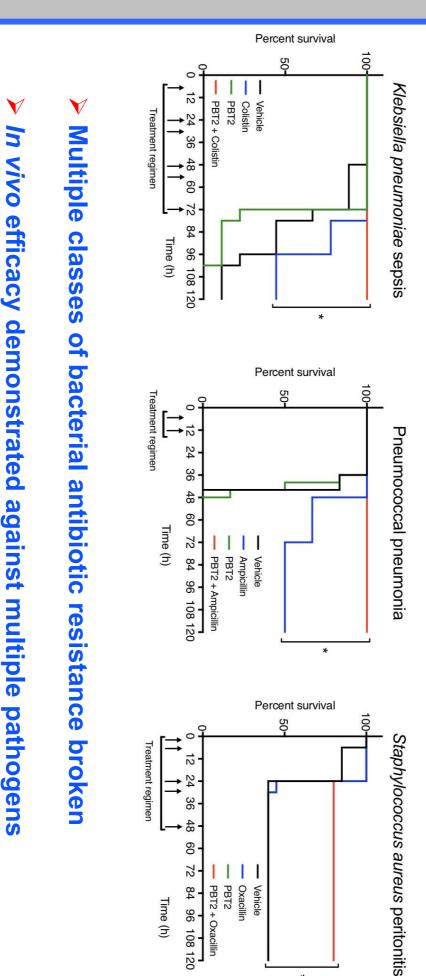
Huntington Study Group Reach2HD Investigators

Safety, efficacy, and biomarker findings of PBT2 in targeting $\implies \emptyset$ A β as a modifying therapy for Alzheimer's disease: a

Lars Lannfelt, Kaj Blennow, Henrik Zetterberg, Stellan Batsman, David Ames, John Harrison, Colin L Masters, Steve Targum, Ashley I Bush, Ross Murdoch, Janet Wilson, Craig W Ritchie, on behalf of the PBT2-201-EURO study group*

phase IIa, double-blind, randomised, placebo-controlled trial

REPURPOSING THE IONOPHORE PBT2 TO BREAK **ANTIBIOTIC RESISTANCE**



- 72 84 96 108 120 PBT2 + Oxacillin Time (h)

- Method of use PCT/AU2018/051116 filed Oct 2018

HURDLES ENCOUNTERED IN REPURPOSING

- Harmonising "method of use" and "composition of matter" IP
- Composition of matter IP lapses in 2025
- Access to human trail PK/PD/toxicity data
- trials (NHMRC Development, MRFF, CARB-X etc) Bridging funding for development of this discovery into human
- development Navigating the broken(?) commercial pipeline for antibiotic

IONOBIOTICS – A NEW THERAPEUTIC STRATEGY AGAINST ANTIBIOTIC RESISTANT PATHOGENS

U Q

U Adelaide

Chris McDevitt

Erin Brazel

Mike Jennings

Ibrahim El-Deeb

Mark Von Itzstein

Griffith

Mark Walker Alastair McEwan

Maree Smith Lisa Bohlmann

David De Oliveira

Cheryl Ong

Mark Schembri **Amanda Cork**

Duy Phan

Greg Cook

Mark Davies

U Melbourne

Amelia Soderholm Tania Rivera Hernandez

U Otago

Scott Ferguson

Nichaela Harbison-Price



AID

The University of Queensland Australian Infectious Diseases research centre Queensland Institute for Medical Research



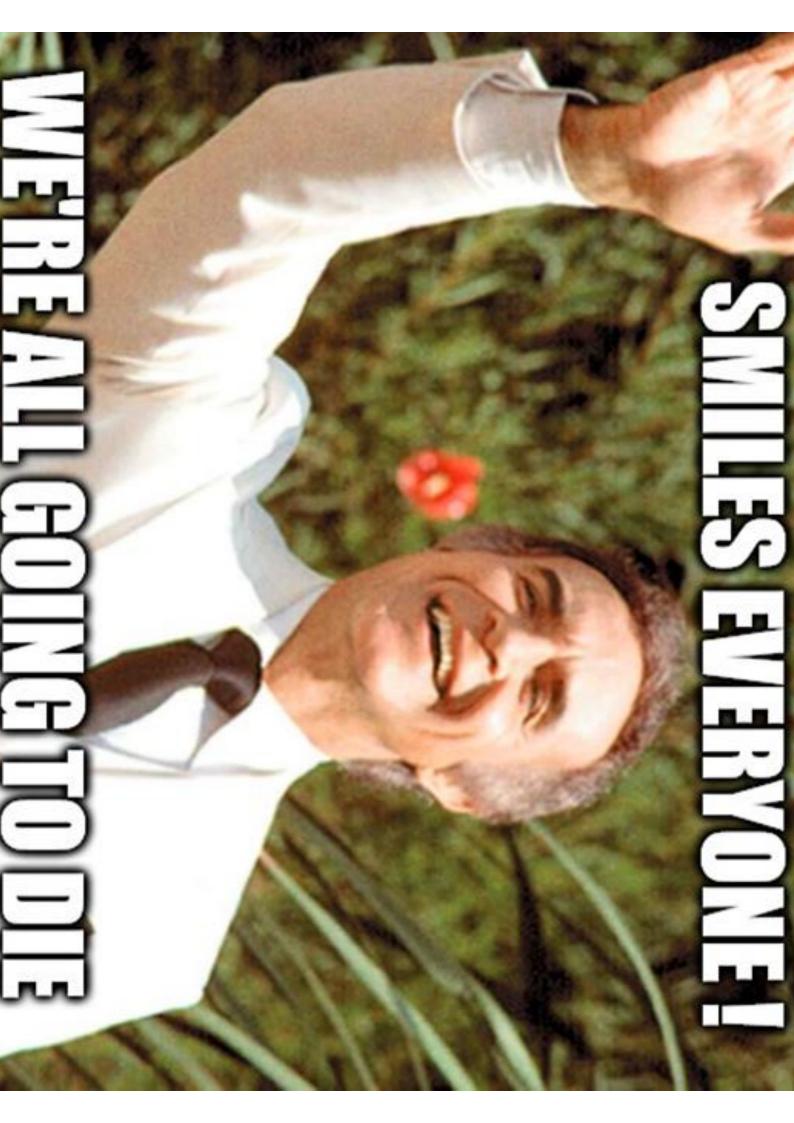




AMR Workshop November 2019 Biosciences

Julie Phillips | Managing Director

Opal Biosciences Limited is an innovative player in infectious disease treatment An Australian biotechnology company committed to tackling a serious global health threat







Huge Opportunity

- High unmet need
- Australia has capability



Huge Barriers

- Visibility of industry
- Fragmented capabilities
- Lost expertise
- Poor value proposition



Opal's journey







- Nice pathogens to target
- Couldn't find animal models
- Found model (in US) but pathogens Found different nice
- Approached couldn't access it found new pathogens NIH/USAMRIID and

- was toxic to rodents Vehicle in formulation
- reformulate Tried to raise \$\$ to
- Almost zero funding
- proposition no investment Topical development
- but no further SS overseas reformulation Paid for expensive



- formulator Topical developer recruiter IV
- **Funding tight**
- worse proposition Investment





Biosciences

BioCurate Perspective Antimicrobial Drug Development: The

Paul Field
Business Development Advisor
BioCurate



Weak Global Pipeline

- Big pharma has abandoned new antibiotics with a few exceptions for development address pathogens on the WHO list of critical threats CAP, UTI e.g. Merck (Recarbrio) - only 11 antibiotics in clinical
- Most new antibiotics belong to existing classes, against which bacterial resistance has been observed or could easily develop
- Only one of the *novel* antibiotics in development has the potential to treat infections including carbapenem-resistant Acinetobacter baumanni, Pseudomonas aeruginosa and Enterobacteriaceae treat Gram-negative bacteria, which cause some of the hardest-to-
- Only 3 antibiotics in the clinic have the potential to treat *Neisseria* gonorrhoea which is one of the top three most urgent threats (WHO)



Australia

Australia has unrealised potential to contribute to the global pipeline of new antibiotics

- Biotech companies
- eg. Reece, Opal, Boulos & Cooper
- Academic and research expertise
- eg. Monash Institute of Pharmaceutical Sciences, UQ
- Clinical capabilities
- eg. UQCCR (MERINO Trial)



- Est. 2016 by UoM and Monash
- 150 years of combined biotech/pharma industry experience
- Responsible for 70 drugs currently in the clinic including over 35 Investigational New Drug applications (INDs)
- Directly involved in 15 deals worth a cumulative total of over \$2.1B
- Investing in the development of drugs discovered by UoM and MU
- Focused on therapeutic areas where there are models of commercialisation (cancer, CNS, inflammation etc.)



BioCurate BioCurate is a joint venture between Moraesh University and the University of Melbourne BioCurate

BioCurate is a joint venture between Monash University and the University of Melbourne

BioCurate's Core Business — Drug Development

- UoM and Monash have brought a number of antibiotic drug candidates to BioCurate for potential investment;
- Broad and narrow spectrum antibiotics, NCEs and repurposed drugs
- Analogues of existing antibiotics eg. levamisole
- Novel combinations and reformulations eg. Polymixin B
- But the business case is weak for investment in new antibiotics;
- Achaogen, Milenta etc.
- FDA has approved 16 antibiotics since 2000 but only 5 have generated sales in excess of US\$100m per annum
- Big pharma has abandoned the space e.g. Sanofi, Pfizer, Novartis etc.

Investors

finance and follow-on investment In the absence of big pharma licensing partners, BioCurate looking to sources of

- Repair Impact Fund
- Wellcome Trust
- European Investment Bank AMR Fund (@Euro 500m)
- BARDA
- US\$500m CARB-X
- Direct acting small molecules
- Bacterial vaccines
- Alternative therapies (e.g. bacteriophages)
- Diagnostics

......CARB-X funds pre-clinical and Phase 1 R&D and is the ideal partner



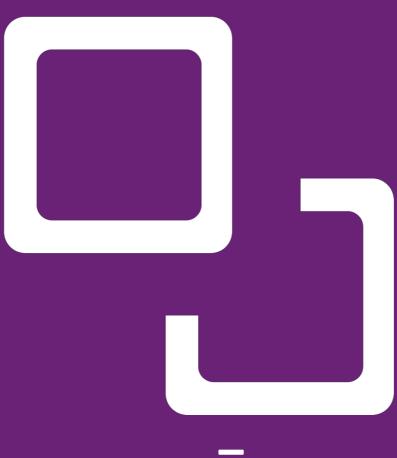
Australia Needs a CARB-X Accelerator

- CARB-X distributes grants through its network of global accelerators but Australia does not have a CARB-X accelerator
- BioCurate considered responding to the CARB-X call for accelerators in Feb 2019 but not financially attractive
- CARB-X has no plans for another round of accelerators in 2020 but would likely make an out-of-cycle investment if there was a cash commitment from Australia
- The CARB-X accelerator in India (C-CAMP) is supported by the Indian Govt
- An Australian accelerator could improve access to international funding for Australian researchers and biotech companies;
- Direct acting NCEs
- Reformulated antibiotics
- Diagnostic tests for resistance-guided therapy
- Bacterial vaccines, synthetic biology



An MSD Perspective Antimicrobial Drug Development:





Session 2
International partnerships and collaborations



programs in context of market failure Overview of the international landscape for infectious disease

Disease / Disease group	Level of market failure ³	Dedicated global and regional R&D entities / initiatives
Bacterial infections ¹	High	WHO/DNDi GARDP, CARB-X, IMI, Global AMR R&D Hub
Fungal infections	High	•
HIV	Low, but very high for paediatric applications	IAVI, IPM
Influenza	Low	•
Malaria	High	MMV, MVI,
Neglected tropical diseases	Very high	TDR, DNDi, Sabin Institute, FIND, GHIT
Emerging diseases with pandemic potential ²	Very high	WHO R&D Blueprint, CEPI, FIND
Tuberculosis	High	Global Alliance for TB Drug Development, TB Vaccine Initiative
Viral hepatitis	None	•

incentives (adapted from the Special Programme for Research and Training in Tropical Diseases) by WHO

 $^{^{}m 1}$ Bacterial infections that are not classified as neglected tropical diseases. TB is listed separately

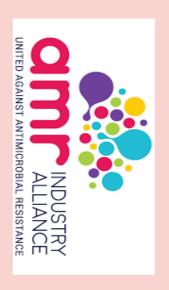
diseases (including Ebola and Marburg); Middle East Respiratory Syndrome Coronavirus; other highly pathogenic coronaviral diseases (such as Severe ² R&D Blueprint: Revised list of priority diseases. Arenaviral hemorrhagic fevers (including Lassa Fever); Crimean Congo Haemorrhagic Fever; Filoviral Acute Respiratory Syndrome; Nipah and related henipaviral diseases; Rift Valley Fever; Severe Fever with Thrombocytopenia Syndrome; Zika; Disease X Very high: no commercial market/no financing mechanisms; High: limited commercial markets; Low: significant commercial markets/financial



Industry initiatives

ndustry initia

Description/Output to date



other preventive therapies; 1/3 of the Alliance companies that produce classes, 10 antibiotics in late-stage clinical development, 13 clinical bacterial antimicrobial resistance, with over 100 biotech, diagnostics, generics and antibiotics currently have a strategy, policy or plan in place to address the vaccine candidates, and 18 AMR-relevant diagnostic products, as well as At least USD 2 billion in R&D dedicated to AMR-related products in 2016: Private Sector coalition set up to provide sustainable solutions to curb may contribute to AMR https://www.amrindustryalliance.org/ issue of the release of antibiotics in their own manufacturing effluent that covering R&D-related costs for early-stage R&D exploring new product research-based pharmaceutical companies and associations joining forces.



antimicrobial resistance (AMR). companies involved in developing innovative products and kits to tackle BEAM (Biotech companies in Europe combating AntiMicrobial Resistance) Alliance is a strong Network of approx. 65 small and medium-sized European

priority list) https://www.amrindustryalliance.org/ to this pipeline (majority target critical pathogens as mentioned by the WHO potential new antibiotic compounds or curative and preventive technologies In numbers, members of the BEAM Alliance together contribute over 120



innovative

The biggest public private partnership in life sciences Innovative Medicines Initiative Vision:



for funding as described below. the development of specific projects or research programmes which will be prioritised and the regulatory framework. It is intended to provide a framework that will underpin challenges currently facing the European healthcare system, the pharmaceutical industry The Strategic Research Agenda has been written to reflect a summary of the **major**

for priority diseases be realised the vision of IMI2 of delivering the right treatment to the right patient at the right time advances offer if working in individual silos. Only by engaging all key stakeholders can opportunity, no one sector or institution can achieve the potential that these scientific IMI will drive a new and integrated approach to R&D. While offering enormous



EFPIA contributions ≈ 190m € IMI and AMR: 16 Projects since 2008 totalling ≈ 530m €







Accelerator









MAGNET





ND BB

TRANSLOCATION









NHMRC funding on AMR

Total	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	Calendar Year
\$163,898,226	\$24,948,428	\$23,013,107	\$22,538, 449	\$21,337,315	\$16,531,731	\$14,198,819	\$12,941,875	\$9,258,359	\$10,089,195	\$9,040,949	Expenditure

Investment in AMR research and development in Australia remains strong, with \$164 million invested through the National Health and Medical Research Council (NHMRC) over the last 10 years (2009 – 2018) across 299 grants.

The total investment across the 299 grants equals \$201.3m. The largest proportion was allocated to basic science investigations (\$106.3m across 178 grants), followed by clinical medicine at \$51.4m across 85 grants.

A total of \$31.4m was allocated across 27 grants to public health investigations and \$12.2m were allocated across 9 grants for health services research. (Note: These were categories self-selected by the applicants).



Variety of government investments in infectious diseases

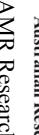








Australian Government





Australian Research Council







Future Fund

Medical Research





Vaccine Exchange

Excellence in Minimising Antibiotic Resistance CREMARA – The Centre for Research from Acute Respiratory Infections







PREPAREDNESS RESEARCH ON INFECTIOUS DISEASE EMERGENCIES

APPRISE









Improving Health Outcomes in the Tropical North







tor a safer world New vaccines





Or do we need National Research Agenda with industry Do we have the right model for product development?



"I don't know what these dots are ...
but ya mind if I connect 'em?"

- What are our priority pathogens?
- Where are the product gaps ?
- What is the rest of the world doing?
- How can we contribute and benefit?
- Capitalise on Australian capability with Australian and regional needs in mind
- Recognise role of industry in product development



Because diagnosis matters



- Programs in a range of infectious diseases including TB, malaria
- Expanding program in AMR and epidemic preparedness
- Australia is a donor to FIND (through DFAT)
- Enabling AMR surveillance in a number of Asian and African countries
- Collaborating with SpeeDx in the development of new antibiotic susceptibility and resistance tests for NG
- Supporting WHO Collaborating Centres in Australia
- Participant in the new ARC Research Hub to Combat AMR
- Committed to resistance-guided therapies as an alternative to syndromic management of bacterial infections
- Collaborating with the Burnet, active projects in PNG and elsewhere
- FIND is a CARB-X Dx Accelerator (the FIND team is based in the USA)

Programs in STIs, including XDR NG, and neonatal sepsis

A joint DNDi / WHO initiative

- Objective is to bring 5 new treatments to the market by 2023
- GARDP is a NFP able to support 2nd and 3rd line treatments, provide stewardship
- Donors include UK, Netherlands, Germany, South Africa-but not Australia
- Majority of clinical trial sites are in donor countries or LMICs
- Seeking to run clinical studies in Australia but need Australian support
- Collaborating with CO-ADD at the University of Queensland
- Participant in the ARC Research Hub to Combat AMR led by the Kirby Inst.
- Will collaborate with Australian biotech companies in the Hub



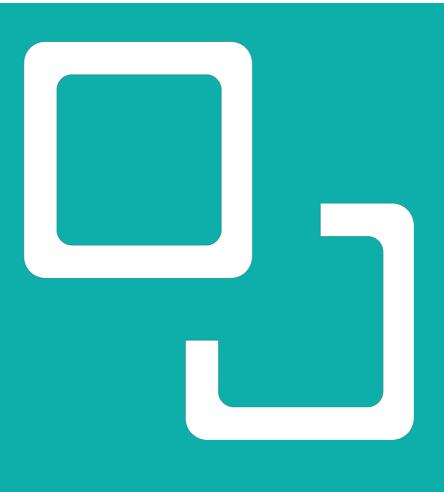
Session 2: International partnerships and collaborations

10 mins	20 mins	10 mins	رب ا
Report Back	Discussion: How can Australia enhance collaboration?	Presentation: International landscape, including FIND&GARDP	
TABLE CHAIRS	ALL PARTICIPANTS	Jennifer Herz, Managing Director, Biointelect	

- What are the top three issues identified for this topic?
- Why have you chosen these issues?
- Please propose ways forward to address, stakeholders, roles...



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Session 3: Regulation of antimicrobials



AMR Commercialisation Workshop

Regulation of Antimicrobials

Mr Adrian Bootes
Assistant Secretary

Medicines Regulation Division

Prescription Medicines Authorisation Branch, TGA

https://www.tga.gov.au/tga-presentation-amr-commercialisation-workshop-19-november-2019

GA Health Safety Regulation





Session 3: Regulation of antimicrobials

- What are the top three issues identified for this topic?
- Why have you chosen these issues?
- Please propose ways forward to address, stakeholders, roles...





Session 4:
Pricing, reimbursement and supply chain



"Pull" incentives to reward new product approval....

EDITORIAL

nature biotechnology

Wanted: a reward for antibiotic development

development of new drugs against resistant bugs Addressing the commercial failure of the antibiotic market should be a priority for governments seeking to encourage



and appropriate stewardship? assess value and are linked to workable national funding mechanisms The challenge: How to provide market incentives that utilise HTA to

pathways **Appropriate** regulatory HTA that assesses necessary dimensions trom international alliances Participation in and learning

Value-based pricing that links with state and federal processes and channels for funding, ensuring supply when required, under appropriate stewardship

Need to also recognise supply chain issues and potential for shortages of older, low cost therapeutics

National and international therapeutics development



'affirmative action' in terms of HTA and reimbursement Internationally, more countries are recognising need for



- Summarises the current state of HTA and contracting for antibiotics and recent proposals that have been advanced for revising both. **This research focussed on five countries which have been taking initiatives in the area of AMR:** France, Germany, Italy, Sweden, and the UK (England and Scotland).
- Antibiotics give rise to spill over benefits and/or costs, beyond the impact on the immediate consumer which are not accounted for in market transactions. In the context of health care, these are benefits and costs to the health system beyond those attributable to the treated patient.
- Estimates suggest that a considerable part of the value of new antibiotics will come over time from these types of benefits, such as preventing the transmission of infections to other patients and slowing down the development of resistance to other drugs.
- These are 'public health effects' as they accrue to the payer in the future and to future patients. Good policy design should 'internalise' these public health effects into the payer's assessment of value, but conventional HTA methods only include benefits and costs associated with treating the immediate patient, thus reinforcing the low returns for new antibiotics and hitting at incentives for innovation.



NHS ENGLAND: INNOVATIVE MODEL FOR THE EVALUATION AND PURCHASE OF ANTIMICROBIALS

NHS England + NHS Improvement + NICE

… a model that pays companies for antimicrobials based primarily on their expected value to the NHS, as opposed to the actual volume used"

PHASE 1 (end of 2019)

- Development of an evaluation framework
- Development of a negotiation framework
- Identification of 2 products to

PHASE 2 (end of 2020)

Value assessment of 2 products

- Commercial discussion
- Implementation of payments
- Monitoring the use of selected products

3 YEAR PILOT LIKELY (end 2023)

"... an adapted HTA framework, informed by health economic modelling and expert opinion"



of technical issues? How to retain central role of HTA while dealing with complex set







FRAMEWORK FOR VALUE ASSESSMENT OF NEW ANTIMICROBIALS

Implications of alternative funding arrangements for NICE Appraisal

Authors: Claire Rothery¹, Beth Woods¹, Laetitia Schmitt¹, Karl Claxton¹², Stephen Palmer¹, Mark Sculpher¹

- Centre for Health Economics, University of York
- ² Department of Economics and Related Studies, University of York

Central to the proposed alternative NHS funding arrangements of new AMs is the need to characterise the expected value of a new product over an appropriate time horizon.

- This means taking into account the same values as other health technologies; i.e. health benefits accruing at a population level, expected costs borne by the payer, and the opportunity costs associated with expenditure, but also additional elements of value for AMs, including:
- **diversity value** (benefits of having a range of treatments available to reduce selection pressure and preserve the efficacy of existing AMs);
- transmission value (benefits of avoiding the spread of infection in the population);
- enablement value (benefits of enabling surgical and medical procedures to take place);
- spectrum value (benefits of replacing broad spectrum with narrow spectrum AMs that target specific pathogens);
- insurance value (benefits of having treatments available in case of sudden, or major, increase in prevalence of infections)



Or are there more pragmatic HTA solutions?



$$ICER_{ABX} = \frac{C - S - S_t - S_d}{V + V_t + V_d}$$

V_t is the benefits of reduced transmission of the disease to the rest of the population, in terms of QALYs from avoided infections.

V_d is the "diversity value" – the benefit at the population level of protecting the existing portfolio of antibiotics, in terms of QALYs flowing from the avoidance of other resistant infections

C is the total purchase and administration cost of using the antibiotic for the population of interest: heuristically, if N people are treated, then C=NC. S is the total cost savings (for example in avoided treatment and reduced bed-days) for the treated population, and \underline{S}_t and \underline{S}_d are the cost savings from avoided transmission and protection of existing antibiotics.



and stewardship Beyond HTA: Procurement mechanisms, hospital procurement

Procurement of antibiotics used in hospital settings is often tender-based and may be regulated through tariff-based payments, (e.g. using DRGs), consisting of a single lump sum payment for the whole illness episode (i.e. diagnostic, provider care and medications). This system creates a disincentive to the appropriate use of new antibiotics, if their value is reflected in a high price.

Reimbursement reform can complement and reinforce key antimicrobial stewardship components, including the use of diagnostics, de-escalation, regimen monitoring, and surveillance. These can support appropriate use to preserve existing treatments / alternative treatment options. Reimbursement reform should also result in predictability in costs for the health system and reflect the value of a novel antibiotic over its life-cycle.

Payer reform is needed to better capture the societal value of antibiotics in HTA. The objective is to create an evidence-based value assessment that then can serve as a foundation for commercial discussions.

IFPMA Policy Position on AMR

There is increasing support to the idea that payments delinking value from volumes prescribed may represent a longer-term solution, since the overall value of a new antibiotic to the whole population is likely to be enhanced by restricting its use within a stewardship programme.

OHE Report

the unpredictability of resistance levels while at the same ensures the availability of the new antibiotic and manages outbreak. From the health care system perspective, this purchased in addition to the annual fee or a certain at a fixed price or preset fee. Antibiotics are either companies upfront and/or annual negotiated payments antibiotic available in a market, payers agree to provide of insurance, where in exchange for making the new One new business model option is based on the concept launch as it will at least receive the upfront/annual fee insured against the commercial risk of very low use at time improving budget predictability. The company is revenue limit/cap in the event of large demand volume may be covered by that fee. May also include a regardless of the volume of antibiotic used requirements due to a catastrophic resistant infection

Company submission to the Australian consultation on AMR



and stewardship Beyond HTA: Procurement mechanisms, hospital procurement

Current pricing, reimbursement and procurement models can contribute to shortages, via tendering for small quantities with limited sales revenue

Need to also recognise supply chain issues and potential for shortages of older, low cost therapeutics.

Movement of patients from one institution to another, coupled with antibiotic shortages in one or more of those institutions makes effective stewardship extremely difficult



Solutions needed to combine value-based pricing that links with state and federal processes and channels for funding, ensuring supply when required, under appropriate stewardship.



complexities at this meeting!) Questions for discussion (recognising we will not solve technical

- Are current HTA processes and guidelines in Australia capable of more fully considering the value novel antibiotics bring to society?
- recognising that to do so for the 'long list' of value dimensions is likely to result in a prolonged and highly complex HTA? If not, how might they be modified to better consider additional dimensions of value,
- minimum? What are the 'must have' elements of value that an HTA process might include at a
- How might necessary expert opinion be brought into the HTA process?
- Would dynamic transmission models help, or would that be added complexity and delay?
- funding channels other than the PBS, while optimising stewardship? Are there opportunities to improve market rewards via existing systems in hospitals or via
- What are the sector specific roles and responsibilities in this area? How do we move the discussion forward and seek a balance between efficiency and complexity?



Session 4: Pricing, reimbursement and supply chain

10 mins	30 mins	10 mins	⊘ +
Report Back	Discussion	Presentation: Introduction to key issues	
TABLE CHAIRS	ALL PARTICIPANTS	David Grainger, Head Global Health Outcomes and Policy, Biointelect	

- What are the top three issues identified for this topic?
- Why have you chosen these issues?
- Please propose ways forward to address, stakeholders, roles...

