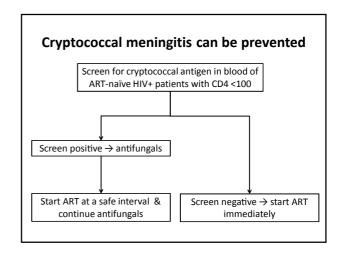
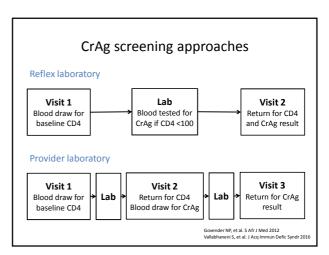


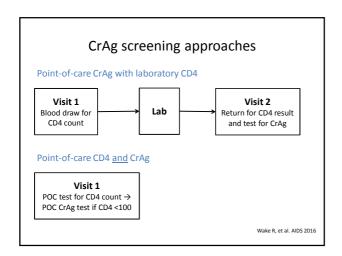
Opportunities for improvement

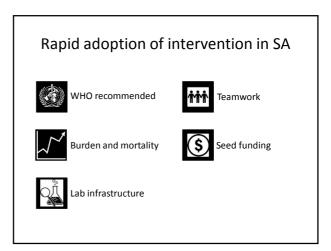
- 1. Earlier detection
- 2. First-line antifungal treatment
- 3. Adjunctive treatment

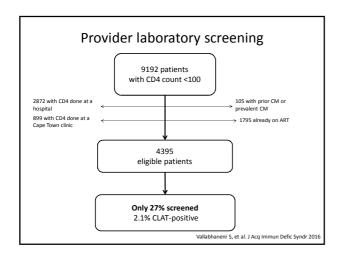


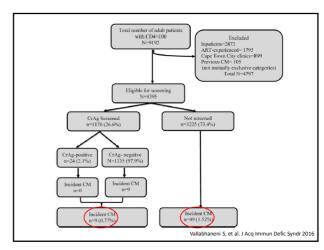


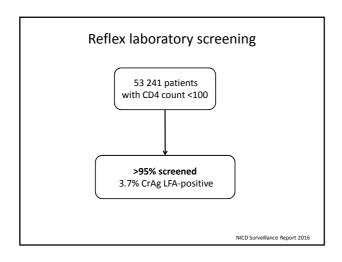


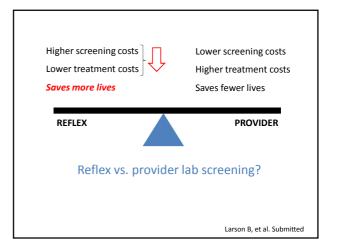


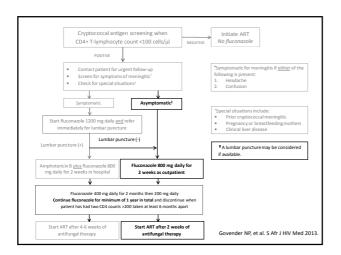




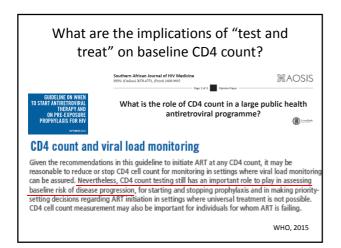


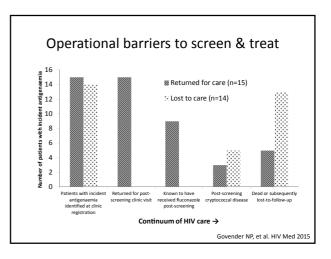






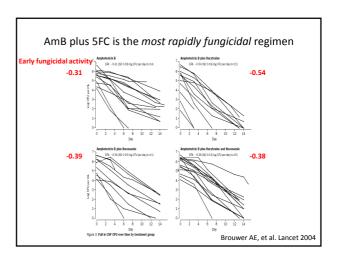
Is this evidence-based treatment?

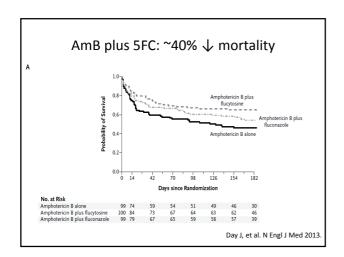


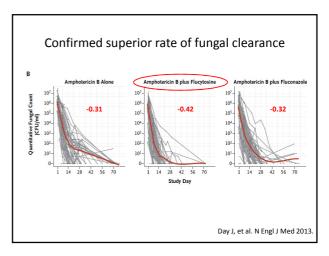


Opportunities for improvement

- 1. Earlier detection
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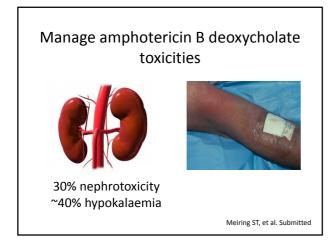


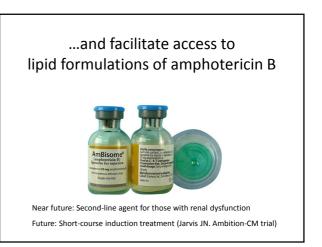




World Health Organization Antifungal regimens Induction (2 weeks) Consolidation (8 weeks) Toxicity . package Ampho B + flucytosine [Strong/High] Fluconazole 400-800 Amphotericin B Available combination mg [Strong/Low] Ampho B + fluconazole [Strong/Moderate] Ampho B + fluconazole Amphotericin B Not available Fluconazole 800 mg (short course) [Conditional/Low] Not available Fluconazole ± flucytosine Fluconazole 800 mg amphotericin B Fluconazole 1200 mg [Conditional/Low]

Advancing Cryptococcal meningitis Treatment for Africa (ACTA) A phase III, randomised, controlled trial for the treatment of HIV-associated cryptococcal meningitis: 1. Fluconazole plus flucytosine for 2 weeks 2. Amphotericin B plus EITHER fluconazole OR flucytosine for 7 days 3. Amphotericin B plus EITHER fluconazole OR flucytosine for 14 days Malawi, Zambia, Cameroon and Tanzania Target: 680 patients

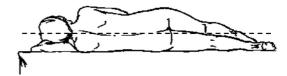




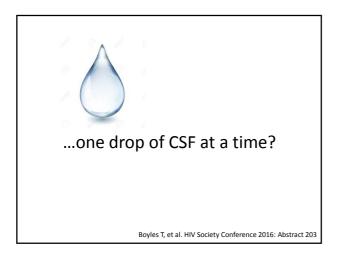
Opportunities for improvement

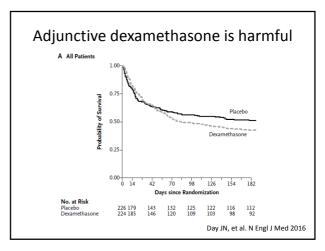
- 1. Earlier detection
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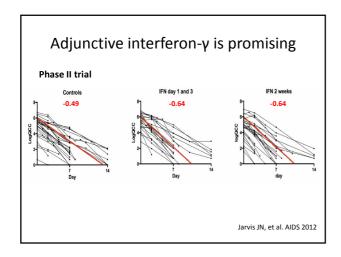
Raised pressure must be managed

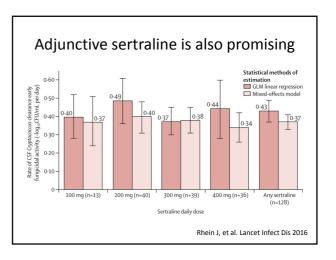


- If opening pressure is >25 cm H $_20$, remove 10-30 ml CSF to reduce pressure by at least 50% or to <20 cm H $_20$
- Repeat LP whenever there are symptoms or signs of RICP
- Daily therapeutic LPs may be required









Summary

- Cryptococcal meningitis is a devastating opportunistic infection which is *still* an issue in 2016
- We have new strategies to detect cryptococcal disease earlier and manage meningitis more aggressively
- Renewed hope to improve patient outcomes if properly implemented

Acknowledgements

- National Department of Health
- Gauteng, Free State and WC Departments of Health
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- National Health Laboratory Service
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- USAID-South Africa
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- SA HIV Society
- Academic partners: UCT, St George's UL, Boston University, University of Minnesota





