Supplementary File

Here are the questions, unchanged, from the online survey, hosted on SurveyMonkey, publicised through the Thoracic Society of Australia and New Zealand Paediatric Special Interest Group. The survey was open from April to May 2018.

Survey title: Azithromycin prescribing by respiratory paediatricians in Australia and New Zealand for chronic wet cough: a questionnaire-based survey.

I am wanting to learn how the antibiotic, azithromycin, is being prescribed by paediatric respiratory specialists in Australia and New Zealand for children with symptoms of chronic cough and/or features of chronic suppurative lung disease or bronchiectasis. The first 8 questions of the survey are gathering demographic information and learning about the nature of your clinical practice, while the remaining 15 questions are about where, when and to whom you prescribe azithromycin.

I would really appreciate the 10 minutes you spend to complete this short survey.

Definitions used for the purpose of this survey:

- **Protracted bacterial bronchitis** (PBB) an isolated chronic (>4 weeks) wet or moist cough without specific pointers to an underlying cause and which resolves after a 2-4 week course of oral antibiotics.
- **Recurrent PBB** >3 episodes of PBB in a 12-month period.
- Chronic suppurative lung disease (CSLD) where symptoms and signs of bronchiectasis are present, but HRCT scan evidence for this diagnosis is absent.
- **Bronchiectasis** characterised by chronic wet cough with a variable response to antibiotics, frequent pulmonary exacerbations and HRCT scan evidence of one or more dilated bronchi.

'This survey is being conducted using SurveyMonkey, which is based in the United States of America. Information you provide on this survey will be transferred to SurveyMonkey's server in the United States of America. By completing the survey, you agree to this transfer.'

All data collected will be kept confidential.

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Ouestion 1-8 refer to your demographics and clinical setting	Ouest	ion 1	I-8	ref	er t	0	vour	dem	ogra	phi	cs and	cl	ini	ical	setti	n	Q
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1. What year did you graduate from medical school?							
$\bigcirc_{1960\text{-}1969}$ $\bigcirc_{1970\text{-}1979}$	01980-1989	O ₁₉₉₀₋₁₉₉₉	O ₂₀₀₀₋₂₀₀₉				
2. What is your gender?							
Omale Ofemale							

3. What is your medical discipline?
Ospecialist respiratory paediatrician (in respiratory)
Ospecialist respiratory paediatrican within general paediatrics
Ogeneral paediatrician with a special interest in respiratory medicine
Oother
4. What is the nature of your practice?
Opublic hospital only
Opublic and private
oprivate only
Ocommunity clinic
Other (please specify)
5. What state or country do you practice in?
Australian Capital Territory
ONew South Wales
ONorthern Territory
Queensland
Osouth Australia
OTasmania
Victoria

OWestern Australia								
ONew Zealand								
6. How many patients approximately do you see annually with?								
, , , , , ,	, ,	0-25	26-50	51-74	>75			
bronchiectasis unrelated to c	ystic fibrosis				\bigcirc			
chronic suppurative lung dis	ease		\bigcirc	\bigcirc	\bigcirc			
recurrent (>3 episodes/yr) of	f protracted bacterial broad	nchitis O	\bigcirc	\bigcirc	\bigcirc			
7. What conditions/circumall that apply)	stances would you cons	ider prescri	bing azit	hromycin	ı? (tick			
Short course (2-4 weeks)								
\bigcirc	Bronchiectasis							
\bigcirc	chronic suppurative lui	ng disease (C	CSLD)					
\bigcirc	recurrent (>3 episodes/year) of protracted bacterial bronchitis							
\bigcirc	chronic (>4 weeks) of wet cough where protracted bacterial							
	bronchitis is considered	d the most lil	kely diag	nosis				
\bigcirc	chronic aspiration (e.g. child with cerebral palsy, acquired brain							
	injury or other neurom	uscular disor	ders.)					
	Other (please specify)							
Long Course (>4 weeks)								
Long Course (>4 weeks)	Bronchiectasis							
_								

	current (>3 episodes	/year) of protracted bacterial bronchitis					
ch	chronic (>4 weeks) of wet cough where protracted bacterial						
br	bronchitis is considered the most likely diagnosis						
ch	chronic aspiration (e.g. child with cerebral palsy, acquired brain						
in	jury or other neurom	nuscular disorders.)					
O O	ther (please specify)						
8. Approximately how many children have you prescribed azithromycin to in the last 12 months?							
0-25 0 26-50 0	51-74	>75					
The following questions (Q9-23 CSLD or bronchiectasis.	3) refer to long term	(> 4weeks) therapy for patients with					
CSLD or bronchiectasis.	, ,	(> 4weeks) therapy for patients with s of CSLD or bronchiectasis would you					
CSLD or bronchiectasis.9. After how many non-hospit prescribe azithromycin?	alised exacerbation						
CSLD or bronchiectasis.9. After how many non-hospit prescribe azithromycin?	alised exacerbation	s of CSLD or bronchiectasis would you					
9. After how many non-hospit prescribe azithromycin? 1 exacerbation in 12 m	alised exacerbation months months 4 ex	s of CSLD or bronchiectasis would you 2 exacerbations in 12 months					
9. After how many non-hospit prescribe azithromycin? 1 exacerbation in 12 m 3 exacerbations in 12	alised exacerbation months months 4 ex	s of CSLD or bronchiectasis would you 2 exacerbations in 12 months acerbations in 12 months					
9. After how many non-hospit prescribe azithromycin? 1 exacerbation in 12 m 3 exacerbations in 12 5 exacerbations in 12	alised exacerbation months months 4 examples and the examples are already as a second control of the examples are already a	s of CSLD or bronchiectasis would you 2 exacerbations in 12 months acerbations in 12 months					
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9. After how many non-hospit prescribe azithromycin? 1 exacerbation in 12 m 3 exacerbations in 12 5 exacerbations in 12 10. After how many hospitalis azithromycin?	alised exacerbation months months 4 examination for CSLD or 1 months	s of CSLD or bronchiectasis would you 2 exacerbations in 12 months accerbations in 12 months Other (please specify) bronchiectasis would you prescribe					

11. Do you prescribe azithromycin as a first line treatment for non-severe (non-hospitalised) respiratory exacerbation in CSLD or bronchiectasis?
$\bigcirc_{\mathrm{yes}} \bigcirc_{\mathrm{no}}$
12. Do you trial a long-term non-macrolide antibiotic (e.g. trimethoprim/sulfamethoxazole for 3 months) prior to commencing azithromycin?
yes - usually (>75% of cases) yes - often (25-74% of cases)
Oyes - sometimes (<25% of cases) Ono
13. What tests do you routinely perform prior to commencing azithromycin? (tick all that apply)
Oc- reactive protein (CRP)
OLiver function test
Oupper airway swabs (nasal swab or throat swab)
Osputum (culture & sensitivty) [when age permits]
Onon- tuberculous mycobacteria sputum [when age permits]
Ospirometry [when age permits]
○ ECG
OHearing test
O _{None}
Oother – please specify
14. What are your contraindications to prescribing azithromycin? (tick all that apply)
history of immediate or delayed hypersensitivity reactions to macrolides
Oabnormal liver function tests

	Omicrobiologic al evidence of non-tuberculous mycobacteria infection
	Pseudomonas aeruginosa colonisation
	Oabnormal for- age hearing
	QTc prolongation or risk factors for QTc prolongation
	Other (please specify)
15. V	What is the prophylactic dose of azithromycin you use? (tick all that apply)
	○ 5mg/kg [up to 250mg] daily
	10mg/kg [up to 250mg three] times a week
	500mg three times a week
	weekly (30mg/kg)
	Other (please specify)
	he child has had no exacerbations since starting long-term azithromycin, when you consider ceasing it? (tick all that apply)
	< 6 months (e.g. after the winter season)
	7-12 months
	13-24 months
	25-36 months
	after a period of stability of > 6 months
	Other (please specify)

17. What are the major reasons for you to discontinue azithromycin? (tick all that apply)	
Ono clinical improvement after 3-6 months	
Ono clinical improvement after 7- 12 months	
4+ hospital inpatient managed pulmonary exacerbations in 12 months	
Ogastrointestinal side effects	
Opatient has been on medication for 2 years	
Odetection of macrolide e-resistant bacterial pathogens on respiratory cultures	
Ogrowth of non- tuberculous mycobacterium in sputum	
Operiod of stability > 6 months	
Other (please specify)	
18. What monitoring do you perform whilst the child is on azithromycin? (tick all that apply)	ţ
Oliver function test	
respiratory cultures (testing for antimicrobial resistance to common respiratory pathogens.)	
Sputum microbiology (e.g. annual non-tuberculous mycobacteria cultures on thos able to produce sputum)	e
Ospirometry (if age permits)	
Ohearing test	
Onone	
Other (please specify)	

19. What macrolide resistant pathogens do you find in children taking azithromycin? (tick all that apply)
Ostreptococcus pneumoniae
Ostaphylococcus aureus
Omoraxella catarrhalis
Onon- tuberculous mycobacteria
OHaemophillus influenzae
Ono evidence seen of resistance when tested
I do NOT test for resistant bacteria
Other (please specify)
20. What benefits do you see in the children on azithromycin? (tick all that apply)
Oreduced pulmonary exacerbations
Oreduced need for hospitalisation or intravenous antibiotics
Olonger time to next exacerbation
Oimproved weight gain or body mass index
Oreduced non- pulmonary illnesses
Oimproved lung function
Olower carriage of respiratory bacterial pathogens e.g. <i>H.influenzae</i> or <i>M.catarrhalis</i> (if
monitored)
Other (please specify)

21. Do you have a lower threshold for prescribing azithromycin in any of the following circumstances? (tick all that apply)
Indigenous (Aboriginal, Torres Straight Islander, South Sea Islander, Maori or Pasifica)
Oremote and rural community
Oyounger age < 5 years
Ounderlying co-morbidities or disorders (e.g. congenital heart disease, neuromuscular
disorder, cerebral palsy, acquired brain injury, congenital immune deficiency or
immunosuppression)
Other (please specify)
22. How often do you review the child whilst they are on azithromycin?
Oevery 6 weeks
every 6 weeks every 3 months
every 3 months
every 3 months every 6 months
every 3 months every 6 months once a year
every 3 months every 6 months once a year no follow up
every 3 months every 6 months once a year no follow up
every 3 months every 6 months once a year no follow up
every 3 months every 6 months once a year no follow up Other (please specify)
every 3 months every 6 months once a year no follow up Other (please specify) 23. How long after you cease azithromycin do you find the beneficial effects persist?

25-60 months	
> 60 months	
Ouncertain at this stage	
Oother (please specify)	