Clinical Procedure



Antimicrobial Allergy De-Labelling Procedure - Penicillins

Sites where Clinical Procedure applies

This Clinical Procedure applies to:

Adults Yes
 Children up to 16 years No
 Neonates – less than 29 days No

Target audience acting within scope of

practice

Clinicians including pharmacy, medical, nursing, and allied health involved with allergy assessment and documentation

for adult patients.

DescriptionThis document contains standard operating procedures and

District Wide

processes for performing antimicrobial allergy screening, risk

assessment, documentation, and referral.

Go to Procedure

Keywords Antibiotic, AMS, allergy testing, PENFAST, penicillin,

allergy, antimicrobial stewardship, antimicrobial

Document registration number HNELHD CP 24_12
Replaces existing procedure? No district level document

Registration number and dates of (Note: JHH_0387)

superseded documents

Related Legislation, Australian Standard, NSW Ministry of Health Policy Directive or Guideline, National Safety and Quality Health Service Standard (NSQHS Standard) and/or other, HNE Health Document, Professional Guideline, Code of Practice or Ethics:

- NSQHS Standard 3
- Antimicrobial Stewardship Clinical Care Standard
- See Reference Section on page 6.

Prerequisites (if required)	Staff designation or competency level:
	RN; RM; NP; EN with Medication Endorsement; Pharmacist, Medical Officer, Dentist, Podiatrist
	Patient with a stated or labelled penicillin or any specific drug in penicillin class allergy
Procedure note	This document reflects what is currently regarded as safe and appropriate practice and requires mandatory compliance . If staff believe that the procedure/s should not apply in a particular clinical situation they must seek advice from their unit manager/delegate and document the variance in the patient's health record.
Position responsible for the	Director, Infection Prevention Service
procedure and authorised by	Dr Sarah Browning sarah.browning@health.nsw.gov.au
Procedure contact person	Bianca Mills, District Antimicrobial Stewardship Governance Pharmacist
Contact details	HNELHD-DistrictAMS@health.nsw.gov.au
Date authorised	16 August 2024
This document contains advice on therapeutics	Yes - Approval gained from HNE Quality Use of Medicines Committee on 30 September 2024
Issue date	2 October 2024
Review date	2 October 2027

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12

Note: Over time links in this document may cease working. Where this occurs please source the document in the PPG Directory at: http://ppg.hne.health.nsw.gov.au/

SUMMARY - PURPOSE AND RISKS

This document contains standard operating procedures and process for performing antimicrobial allergy screening, risk assessment, documentation, and referral.

The risks associated with allergy risk assessment, testing and de-labelling include:

- Patient exposure to potential allergen.
- Patient may attribute subjective symptoms to antimicrobial.
- The potential for allergy label to be re-instituted.
- Psychological distress if patient strongly identifies with allergy label.

Risks to be mitigated by the procedures outlined in this document include:

- Promoting evidence-based risk stratification tool for assessment of antimicrobial allergies
- Standardise allergy testing procedures, observation, and referral pathways.
- Instructions on antibiotic allergy label modification and communication
- Provision of patient information that is consumer focused.
- Clear process for gaining consent and indications for when testing is appropriate.

Accurate assessment and documentation of patient allergy information is crucial to allow for optimal antimicrobial prescribing, allowing for the most appropriate and narrow spectrum antimicrobial possible, whilst ensuring that potential harms (such as anaphylaxis) are avoided. Allergy labelling is associated with suboptimal antimicrobial selection, greater treatment costs, prolonged length of stay, greater re-admission rates and higher prevalence of multi-drug resistant organisms.

Where an oral challenge with amoxicillin is completed as per this procedure using the tools provided, patients can safely have their allergy label removed for all agents within the penicillin class.

Risk Category: Clinical Care & Patient Safety

GLOSSARY

Acronym or Term	Definition
AAL	Antimicrobial Allergy Label
AMS	Antimicrobial Stewardship
CAP	Clinical Access Portal
DMR	Digital Medical Record
DRESS	Drug reaction with eosinophilia and systemic symptoms
GP	General Practitioner
HNELHD	Hunter New England Local Health District
ID	Infectious Diseases
iPM	Patient information management system
MedChart	Electronic Medication Management software
NSMC	National Standard Medication Chart (paper chart)
PEN-Fast	Antimicrobial allergy risk rating tool
SCAR	Severe cutaneous adverse reaction
SJS	Steven-Johnson Syndrome

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12

TEN	Toxic epidermal necrolysis
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PROCEDURE

This procedure requires mandatory compliance.

CLINICAL PROCEDURE SAFETY LEVEL

Every clinician involved in the procedure is responsible for ensuring the processes for clinical procedure safety are followed. The following level applies to this procedure (click on the link for more information):

Level 1 procedure

Staff Preparation

It is mandatory for staff to follow relevant: "Five moments for hand hygiene", infection control, moving safely/safe manual handling, documentation practices and to use HAIDET for patient/carer communication: Hand hygiene, Acknowledge, Introduce, Duration, Explanation, Thank you or closing comment.

Equipment Requirements

Stage 1 Procedure

- Alcohol based hand rub
- Personal Protective Equipment
- PENFAST Antimicrobial Allergy Questionnaire

Stage 2 Procedure

- Observation area
- Amoxicillin 250 mg capsule (one only)
- Blood Pressure cuff
- Oxvgen saturation monitor
- Patient thermometer
- Rapid Response Trolley

Patient Preparation

This procedure is only applicable where patients are:

- able to provide informed consent.
- aged ≥ 18 years of age
- identify (either self-identify, or via medical records) as having an antimicrobial allergy to any agent in the class of penicillins. Note this means a patient with e.g. a 'dicloxacillin' allergy can be safely assessed for de-labelling via this procedure, using amoxicillin as the test agent if applicable.

Pre-procedure

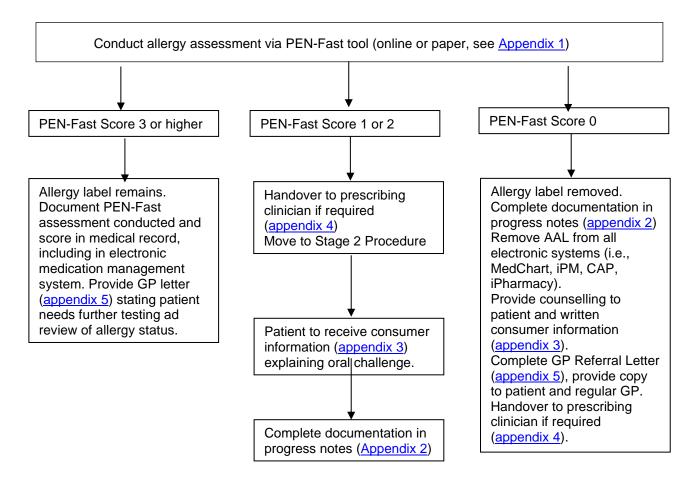
STOP and confirm the following before commencing the procedure:

- Patient identification using three core patient identifiers (Name family and given names, date of birth and Medical Record Number - MRN)
- Procedure verification
- Allergy/adverse reaction check
- Verbal consent to be obtained, written consent is not mandatory. See Policy (nsw.gov.au)
- Ability to recognise and manage anaphylaxis, including access to a rapid response trolley.
- Provide patient with written information sheet (<u>Low risk penicillin allergies Oct 2020 SCV Aus.pdf</u> (<u>wsimg.com</u>)

Procedure Steps

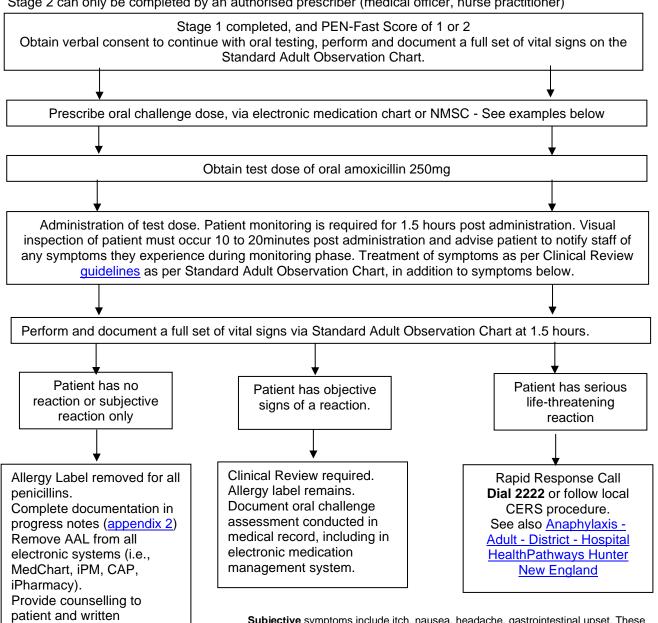
Stage 1 Procedure

Stage 1 can be completed by any clinician as per the designation list at the beginning of this document, whilst working within their scope of practice.



Stage 2 Procedure

Stage 2 can only be completed by an authorised prescriber (medical officer, nurse practitioner)



Subjective symptoms include itch, nausea, headache, gastrointestinal upset. These can be listed as "intolerances" as opposed to allergic reactions in the patient medical

Objective symptoms include rash, hypotension, drop in oxygen saturation (> 4 percentage points), audible wheeze, stridor, swelling, angioedema.

Sample MedChart documentation:

Complete GP Referral Letter

(appendix 5), provide copy

consumer information

(appendix 3).

	Medication	Date/Time Due	Route	Dose	Date/Time Given	
◎ □	Amoxicillin (Amoxycillin) 250mg Capsule DOSE: 250 mg Oral Stat (12:58) Allergy de-labelling test dose	12/06/2024 12:58				Source Not Assigned New Medication Order
	Indication: Antimicrobial Allergy De-Labelling Test Dose					
	12/06/2024 Dr Testing Doctor2					

Medication chart number

Sample NMSC documentation:

Facility/service: Example Hospital					onar chamb			
Ward/unit: Gene	ral Ward				BGL/insulin Chemotherapy			Other
Once only and	nurse ir	nitiated	medicin	es and	pre-medicatio	ns		
Medicine (print generic name)	Route	Dose	Date/time of dose	Prescribe Signature		Given by	Time given	Pharmacy
Amoxicillin	Oral	250 mg	01/01 10:00	A Presc	riber A Prescribe			
	Ward/unit: Gene Once only and Medicine (print generic name)	Ward/unit: General Ward Once only and nurse ir Medicine (print generic name) Route	Ward/unit: General Ward Once only and nurse initiated Medicine (print generic name) Route Dose	Facility/service: Example Hospital Ward/unit: General Ward Once only and nurse initiated medicin Medicine (print generic name) Route Route Dose Date/time of dose	Facility/service: Example Hospital Ward/unit: General Ward Once only and nurse initiated medicines and Medicine (print generic name) Route Route Dose Date/time of dose Signature	Facility/service: Example Hospital Ward/unit: General Ward Once only and nurse initiated medicines and pre-medicatio Medicine (print generic name) Route Medicine (print generic name) Route Route Dose Additional charts In Y fluid BGL/insulin Palliative care Chemotherapy Date/time of Prescriber/Nurse Initiator (NI) Signature Print your name Print your name	Ward/unit: General Ward N fluid BGL/nsulin Acute properties N fluid Palliative care Chemotherapy N hepar N hep	Facility/service: Example Hospital Ward/unit: General Ward Once only and nurse initiated medicines and pre-medications Medicine (print generic name) Route Dose Additional charts IV fluid BGL/insulin Acute pain Acute pain IV heparin IV

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12 IMPLEMENTATION AND MONITORING COMPLIANCE

- Communication to staff covered by this Procedure will be via the weekly email from Clinical Governance, and via the District Infection Prevention Committee and District Antimicrobial Stewardship Committee
- IMS+ of all clinical incidents and near misses directly relating to this procedure.
- Percentage of patients whose known adverse drug reactions are documented in MedChart is a KPI of the local Drug and Therapeutics Committee
- Antimicrobial allergy documentation data is captured at each inpatient facility via annual National Antimicrobial Prescribing Survey audits (NAPS, Surgical NAPS and Aged Care NAPS)

REFERENCES

- 1. Australian Commission on Safety and Quality in Health Care <u>National Standard 3</u> Antimicrobial Stewardship
- 2. Australian Commission on Safety and Quality in Health Care <u>Antimicrobial Stewardship Clinical</u> Care Standard
- Australian Commission on Safety and Quality in Health Care <u>National Standard 4 Adverse Drug</u> <u>Reactions Action 4.07, 4.08, 4.09</u>
- 4. Therapeutic Guidelines: Antibiotic, Therapeutic Guidelines, Melbourne, Victoria <u>Topic | Therapeutic Guidelines</u> (hcn.com.au)
- 5. Therapeutic Guidelines: Penicillin allergy assessment guide, Therapeutic Guidelines, Melbourne, Victoria PenicillinAllergyAssessment_v6.pdf (tg.org.au)
- 6. NSW Health Consent to Medical and Healthcare treatment Manual 2020
- 7. NSW Health Policy Directive Medication Handling PD2022_32
- 8. HNELHD Documentation of patient allergy and adverse drug reactions PD2022_32:PCP 53
- 9. HNELHD Surgical Antibiotic Prophylaxis Hospital Health pathway (link TBA)
- 10. HNELHD District Antimicrobial Stewardship Policy Pol 22 05
- 11. HNELHD District Infectious Diseases Management Clinical Guideline CG22_12
- 12. J. Trubiano, S. Vogrin, K. Chua, J. Bourke, J. Yun, A. Douglas, C. Stone, N. Holmes, E. Phillips, "PEN-FAST: A validated penicillin allergy clinical decision rule Implications for prescribing", International Journal of Infectious Diseases, vol 101, Supplement 1, 89, December 2020. PEN-FAST: A validated penicillin allergy clinical decision rule Implications for prescribing International Journal of Infectious Diseases (ijidonline.com)
- 13. J. Trubiano, S. Vogrin, K. Chua, J. Bourke, J. Yun, A. Douglas, C. Stone, N. Holmes, E. Phillips, R Yu, L Groenendijk, "Development and Validation of a Penicillin Allergy Clinical Decision Rule" JAMA Internal Medicine, vol 180 (5):1-9 May 2020. <u>Development and Validation of a Penicillin Allergy Clinical Decision Rule PMC (nih.gov)</u>
- 14. K. G Blumenthal, J. G. Peter, J.A. Trubiano, and E. J. Phillips, "Antibiotic allergy," Lancet, vol. 393, pp.183-198, 2019
- 15. Australasian Society of Clinical Immunology and Allergy. Anaphylaxis Resources <u>Anaphylaxis</u> Resources Australasian Society of Clinical Immunology and Allergy (ASCIA)
- 16. Gonzalez-Estrada, A., Radojicic, C. Penicillin allergy: A practical guide for clinicians. Cleveland Clinic Journal of Medicine 82, 295–300, 2015.
- 17. Devchand, M., Kirkpatrick, C.M., Trubiano, J.A. Evaluation of a pharmacist-led penicillin allergy delabelling ward round: A novel antimicrobial stewardship intervention. Journal of Antimicrobial Chemotherapy 74, 1725–1730. 2019
- 18. M. Devchand et al., "Pathways to improved antibiotic allergy and antimicrobial stewardship practice: The validation of a beta-lactam antibiotic allergy assessment tool," J. Allergy Clin. Immunol. Pract., vol. 7, no. 3, pp. 1063-1065.e5, 2019.

Useful Links

- 1. MDCalc PEN-FAST Tool Penicillin Allergy Decision Rule (PEN-FAST) (mdcalc.com)
- 2. QxMD Calculate PEN-FAST Tool <u>Clinical version: PEN-FAST Penicillin Allergy Risk Tool</u> <u>QxMD</u>

FEEDBACK

Any feedback on this document should be sent to the Contact Officer listed on the front page.

Antimicrobial Allergy De-Labelling Procedure - Penicillins HNELHD CP 24_12

APPENDICES

APPENDIX 1. PEN-FAST ASSESSMENT QUESTIONNAIRE

PEN	Penicillin allergy reported by patient Five years or less since reaction ^a		If yes, proceed with assessment 2 points		
A	Anaphylaxis or angioedema OR Severe cutaneous adverse reaction ^b		2 points		
Т	Treatment required for reaction ^a		1 point		
		[]	Total points		
	Interpretation				
Points		i 10			
0 Very lo	w risk of positive penicillin allergy test <1% (<1	In 10	o patients reporting penicium allergy)		
1-2 Low ris	k of positive penicillin allergy test 5% (1 in 20 p.	atient	rs)		
3 Modera	Moderate risk of positive penicillin allergy test 20% (1 in 5 patients)				
4-5 High ris	sk of positive penicillin allergy test 50% (1 in 2 p	atien	ts)		

^bForms of severe delayed reactions include potential Stevens-Johnson syndrome, toxic epidermal necrolysis, drug reaction with eosinophilia and systemic symptoms, and acute generalized exanthematous pustulosis. Patients with a severe delayed rash with mucosal involvement should be considered to have a severe cutaneous adverse reaction.

Also available electronically at: Penicillin Allergy Decision Rule (PEN-FAST) (mdcalc.com)

Clinical version: PEN-FAST - Penicillin Allergy Risk Tool | QxMD

^aIncludes unknown.

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12 APPENDIX 2. EXAMPLE PROGRESS NOTE DOCUMENTATION

Antimicrobial Allergy De-Labelled for PEN-Fast Score 0.

	Facility:			-			
			ADDRESS				
	PROGRESS / CLINICAL						
_			LOCATION / WARD				
8		NOTES	COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE				
R050	Date and Time (use 24 hr clock)	Note: All entries must be legible printed name, designation and s	, written in black pen and include the health care provider's ignature.				
S S S	Date: 01/01/24	Antimicrobial Allergy Label	Assessment				
	Time: 10:30	Antimicrobial allergy label as	sessment completed for patient for:				
	, ,	PEN Fast score = 0					
		Allergy label was removed from all electronic systems:					
		□iPM					
		□ MedChart					
		ПСАР					
		□ iPharmacy					
		□ Paper charts					
		Patient was provided with ver	bal counselling and written consumer information.				
AS2828.1: 2012 NO WRITING			lergy status is now updated to "resolved" and they are				
AS28:		GP Referral Letter will be sen	t to:				
ARGIN		&igned A Clinician #	123456	P			

Antimicrobial Allergy De-Labelled for PEN-Fast Score 1 or 2 with oral challenge.

PROGR	ESS / CLINICAL				
5	NOTES	LOCATION / WARD			
Date and Time		COMPLETE ALL DETAILS OR AFFIX PATIENT LABEL HERE			
Date and Time (use 24 hr clock)	Note: All entries must be legib printed name, designation and	ole, written in black pen and include the health care provider's disignature.			
Date: 01/01/24	Antimicrobial Allergy Lab	el Assessment			
Time: 10:30	Antimicrobial allergy label	assessment completed for patient for:			
	PEN Fast score = 1/2				
		proceed to oral challenge, questions addressed.			
	First set of baseline vital signs recorded.				
	Patient received an oral cha	allenge of:			
,	allergy. Patient negative res	urs and demonstrated no objective signs of antimicrobia oult to oral test. Confirmed with patient that allergy status and they are considered "non-allergic".			
	Allergy label was removed f				
	□ iPM				
	□ MedChart				
	☐ CAP ☐ iPharmacy				
	□ Paper char				
	2 raper enai				
	Patient was provided with vi GP Referral Letter will be se	erbal counselling and written consumer information. ent to:			
	Signed A Clinician	. #123456			

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CERTIFICATE OF UPDATED ALLERGY STATUS TEMPLATE



Has previously had an allergy label to: Penicillins Specific agent = Allergy assessment and testing was performed using the following methods: Allergy de-labelling tool (PEN-FAST) — Risk rating: Oral Challenge — Did not react to: and can safely be prescribed penicillins in the future. This certificate is issued on behalf of the Hunter New England Local Health District. This de-labelling certificate Antimicrobial Stewardship program. The purpose of this certificate is to clarify antimicrobial allergies to partimicrobial prescribing to patients.	FICATE OF UPDATED ALLERGY STATUS	
Penicillins Specific agent = Allergy assessment and testing was performed using the following methods: Allergy de-labelling tool (PEN-FAST) – Risk rating: Oral Challenge - Did not react to: and can safely be prescribed penicillins in the future. This certificate is issued on behalf of the Hunter New England Local Health District. This de-labelling certificate Antimicrobial Stewardship program. The purpose of this certificate is to clarify antimicrobial allergies to pa	This certifies that	
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Antimicrobial Stewardship program. The purpose of this certificate is to clarify antimicrobial allergies to pa		
	m. The purpose of this certificate is to clarify antimicrobial allergies to patients to opti	
Signature/Role — Do		

Consumer information from the Clinical Excellence Commission:

<u>Do you have a true antibiotic allergy? Information for Patients and Carers (nsw.gov.au)</u>



Leaflet: Do you have an antibiotic allergy? (nsw.gov.au)



Consumer information from National Antibiotic Allergy Low risk penicillin allergies Oct 2020 SCV Aus.pdf



Network: (wsimg.com)

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12

APPENDIX 4. Handover of antimicrobial allergy de-labelling from non- prescribing clinician

NSW Healt	h	GIVEN NAME		☐ MALE ☐ FEMALE
Facility:	11	D.O.B//	M.O.	
i domey.		ADDRESS		
PROGR	ESS / CLINICAL			
5	NOTES	LOCATION / WARD		
<u> </u>	NOTES	COMPLETE ALL DETAILS	OR AFFIX F	ATIENT LABEL HERE
Date and Time (use 24 hr clock)	Note: All entries must be legible printed name, designation and	,	de the heal	th care provider's
Date: 01/01/24	Antimicrobial Allergy Labe	l Assessment		
Time: 10:30				
	Situation: Patient, Mrs Brown has a	a current antimicrobial allergy lab	el, docume	nted as "Penicillin rasl
	Background: An assessment of her		_	
	Background: An assessment of her labelling of penicillin allergies will a		_	
		allow her more effective and app	ropriate tre	atment.
	labelling of penicillin allergies will a	allow her more effective and app essment was conducted, and Mr	ropriate tre	atment.
	labelling of penicillin allergies will a <u>Assessment</u> : A PEN-Fast allergy ass	ellow her more effective and app essment was conducted, and Mr illin allergy test.	ropriate tre	atment. core was 1. This places
	labelling of penicillin allergies will a <u>Assessment</u> : A PEN-Fast allergy ass her at a low risk of a positive penic	allow her more effective and app essment was conducted, and Mr illin allergy test. ded Mrs Brown receive an oral ch	ropriate tress s Brown's so	atment. ore was 1. This places
	Assessment: A PEN-Fast allergy ass her at a low risk of a positive penic Recommendation: It is recommend	allow her more effective and app essment was conducted, and Mr illin allergy test. ded Mrs Brown receive an oral ch	ropriate tress s Brown's so	atment. ore was 1. This places
	Assessment: A PEN-Fast allergy ass her at a low risk of a positive penic Recommendation: It is recommended abelling during inpatient stay a	allow her more effective and app essment was conducted, and Mr illin allergy test. ded Mrs Brown receive an oral ch s per the HNE District Procedure.	ropriate tress s Brown's so	atment. ore was 1. This places
	Assessment: A PEN-Fast allergy ass her at a low risk of a positive penic Recommendation: It is recommend de-labelling during inpatient stay a review to prescribe.	allow her more effective and app essment was conducted, and Mr illin allergy test. ded Mrs Brown receive an oral ch s per the HNE District Procedure.	ropriate tress s Brown's so	atment. ore was 1. This places
	Assessment: A PEN-Fast allergy ass her at a low risk of a positive penic Recommendation: It is recommend de-labelling during inpatient stay a review to prescribe.	allow her more effective and app essment was conducted, and Mr illin allergy test. ded Mrs Brown receive an oral ch s per the HNE District Procedure.	ropriate tress s Brown's so	atment. ore was 1. This places

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12 APPENDIX 5. GP Report letter – Negative to oral challenge



	Antimicrobial Allergy Assessment
Dear GP	
D	Patient Name: POB: VIRN:
•	ent had an antimicrobial allergy assessment performed by: atient/outpatient at:
ATiAO	esting Details: Intimicrobial allergy to: Time of oral test: Ingent received for oral test: Objective signs following test: No objective signs. Ubjective signs following test: No subjective signs.
Oral prove This indica on our ho	story indicates this patient had features consistent with a low risk for future reaction to penicillin. rocation testing was performed and there were no objective signs to indicate a significant reaction. rates a negative test to penicillin. This patient has had their allergy label removed and the record ospital electronic medical record system updated.
Please rer	Requested Actions: move allergy label on community records to ensure optimal first line antimicrobial therapy in ce with guidelines for future indications.
2	

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12 APPENDIX 5. GP Report letter – PEN-Fast 0



Antimicrobial Allergy Assessment

Re: Patient Name:
DOB:
MRN:

This patient had an antimicrobial allergy assessment performed by:
As an inpatient/outpatient at:

Allergy Testing Details:

- Antimicrobial allergy to:
- Time of assessment:
- Pen -FAST Tool used for assessment.
- Risk rating: 0

Clinical Summary:

Allergy history indicates this patient had features consistent with a very low risk for future reaction to penicillin. The PEN-FAST assessment tool was utilised and indicated a very low-risk rating for future reaction to penicillin. This patient has had their allergy label removed and the record on our hospital electronic medical record system updated.

This assessment indicated that they can now receive penicillin for future indications.

Plan and Requested Actions:

Please remove allergy label on community records to ensure optimal first line antimicrobial therapy in accordance with guidelines for future indications.

Sincerely,

Antimicrobial Allergy De-Labelling Procedure – Penicillins HNELHD CP 24_12 APPENDIX 5. GP Report letter – PEN-Fast 3



Antimicrobial Allergy Assessment

Re: Patient Name:
DOB:
MRN:

This patient had an antimicrobial allergy assessment performed by:

As an inpatient/outpatient at:

Allergy Testing Details:

- Antimicrobial allergy to:
- Time of assessment:
- Pen -FAST Tool used for assessment.
- Risk rating: 3+

Clinical Summary:

Allergy history indicates this patient had features consistent with a moderate risk for future reaction to penicillin. The PEN-FAST assessment tool was utilised and indicated a moderate risk rating for future reaction to penicillin.

This assessment indicated that they require further review and assessment before they can receive penicillin for future indications.

Plan and Requested Actions:

Please review patient allergy label. This patient may benefit from further testing, or referral to an allergy/immunology clinic to ensure optimal first line antimicrobial therapy in accordance with guidelines for future indications. The John Hunter Hospital Immunology and Allergy Clinic can be contacted on (02) 4922 3912 Monday to Fridays, 8am to 4.30pm.

Sincerely,