



ZIMS Diagnosis and Procedures

Contact Species360 Support

Diagnosis and procedures have a set of business rules that must be observed or you will receive a warning message and not be able to validate what you have entered. Review the business rules here.

Topics: <u>Searching for Records</u> <u>Adding new Records</u> <u>Associating Records</u> <u>Resolving Records</u> <u>Marking Invalid and Deleting Records</u>

Searching for Diagnosis or Procedure Records

From the ZIMS Medical Dashboard, you will find a search option for Diagnosis & Procedures in the lower left panel. Here you can search for previous Diagnosis & Procedures.

You can search by:

- Record Scope (Local or Shared or both)
- Clinical/Biopsy origin
- Invalid Records
- By animal/taxonomy
- Concern/Procedure type
- (Multiple with "OR" search)
- Active Records
- Onset Date Range
- Resolution Date Range
- Responsible Clinician
- Confidence Level





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Adding a Diagnosis or Procedure Record

To add a new Diagnosis and Procedure record, from the Medical Dashboard in ZIMS click New, Diagnosis & Procedure, or press '**Shift** & **D**'





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	Sample	Shift + S						
	Test & Results	Shift + T						
	Anesthesia	Shift + A						
	Physiological measurements	Shift + M		*				
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e e	Biopsy	Shift + B						
6	Prescriptions/Treatments							
	Samples							
e	Tests & Results							
Ø	Anesthesia							
	Physiological Measurements							
Ø	Necropsy/Biopsy							

The Add Diagnosis & Procedures pop-up box will appear.

Animal ID *			Onset Date *		
102 / Red pand	a / ISS21-01138 🗙	P 6	02/28/2022	00:00	
Health Status		2	Responsible Clinicia	n *	
Add new			Hannah Jenkins	~	
Quick Diagnos	s/procedure (e.g. Hoof	trim) 😲			
Search for a s	ingle term	Q			
Not in the list? Add	New Term				
	OR				
Diagnosis with	modifiers (Otitis, left, e	ar) 😲			
Use commas to	o separate multiple medio	al terms			
Validate Terms					
Standardize	d Terms				
Term	Туре				
Notes/Comme	nts				
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1. Enter the Animal ID to add the Diagnosis or Procedure to. The Animal ID will default to the record you have open in ZIMS Medical, so make sure to change it if it is for another animal.

Note: you can also add the Diagnosis or Procedure to multiple animals through a Batch

 Enter the Onset Date, Time and Responsible Clinician. Note: These will default based on user preference for responsible party and date will default based on the date of record in context (today in most cases, or health status date, or clinical note date if launched from there).



- 3. The latest Health Status will appear or 'Add new' if one has not been set. Clicking either Add New or the previous Health Status will bring up the Add/Edit Health Status box for you to add a new status. (See more on Health Status <u>here</u>).
- 4. Enter the Diagnosis/procedure. Choose to either enter a Quick Diagnosis/Procedure from a standardized list of terms, or add a Diagnosis with modifiers.
- 5. Add any Notes or Comments associated with the Diagnosis or Procedure. Note: You can validate the string of comma separated terms against the term dictionary. If a term is not in the dictionary, there is a link to add it as a new reference.

Once you have added a diagnosis, the box to add a Confidence Level will appear, as well as an option to mark the diagnosis as unresolvable. Note that these boxes will only appear if you have added a diagnosis, and do not appear if you have added a procedure.

Unresolvable is used when the diagnosis cannot be resolved and will stay with the animal, for example chronic conditions.



Click Save to save and close, or Save and Repeat to add multiple entries.

(Note: If you have added any recent Clinical Notes for this animal, you will have the option to Save and Associate, read more <u>here</u>).

Create Diagnosis from a Note:

Please note you may also highlight text from a clinical note, gross necropsy report or histopathology report and right click to launch the add diagnosis screen. This may save you time.





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Term		Туре												
Feather	picking	Clinical	Sign	×										
			-											

Quick Diagnosis/procedure

Use the type-ahead field to quickly search for a standardized terms, e.g. Hoof Trim.

Add Diagnoses & Procedures 101/Red panda/ISS2	21-01134/Male/Bob/123 00 00000 00000 📧 🛛 🛛
— 🗌 Batch Diagnoses —	^
Animal ID *	Onset Date *
101 / Red panda / ISS21-01134 🗙	02/28/2022 00:00
Health Status	Responsible Clinician *
Normal (01/31/2022)	Hannah Jenkins 👻
Quick Diagnosis/procedure (e.g. Hoof trim) 🔇	
hoof trim	
Hoof trim HOOF BLOCK hoof care	
TZ-HOOF TRIM	
Dermatology/hoof and beak trim	
IMMOBILIZED FOR HOOF TRIM	
chronic hoof trims	
Standardized Terms	
Term Type	
LEFT LEG Anatomical 🔀	
	🚽 Save 🚽 Save & Repeat 🚫 Cancel



Medical concerns and procedures can contain modifiers. When using the Quick Diagnosis/procedure, these will need to be added one-by-one. Example: Lameness is a clinical sign that can stand on its own, but you can add mild, right front limb to give a more complete description of the concern.

Please review the business rules here.

Diagnosis with modifiers.

You can also add a Diagnosis with modifiers all in one by entering the information separated with a comma. Clicking Validate Terms will bring up possible matches of standardized terms for you to choose. Simply tick the ones you want to add, then click Select.

		П	z/ neu p	anua/13321-01130	of Fidice (14)			
— 🔄 Batch Diag	noses							
Animal ID *			Onset	Date *				
102 / Red panda	a / ISS21-01138 🗙	Q	02/28	/2022 🖸 00	:00			
Health Status			Respo	nsible Clinician *				
Add new			Hanna	ah Jenkins	*		itus	
Quick Diagnosis	/procedure (e.g. Hoof ti	rim) 🕐					atus	5
Search for a si	ngle term	P	Possi	ble matches				
Not in the list? Add	New Term		4 pos	ssible standardized te	erms are found to	r otitis, ieft, ear		
0.0				Term	Te	rm Type		
	OR		V	ear	Ai	natomical		
Diagnosis with i	modifiers (Otitis, left, ea	ır) 🧳		Left	Ai	natomical Modifier -	Symmetry	
otitis, left, ear				OTITIS	edical Condition/Syr	dition/Syndrome/		
Validate Terms				Otitis	М	edical Condition/Syr	ndrome/	
Standardized	Terms							
Term	Туре							
No Stan	dardized term selected.							
								_
						🔶 Sele	ct 🔀 Ca	ance
					Save 📕 Save	& Repeat 🛛 🚫 Ca	ncel	

This will then add the diagnosis/procedures/modifiers into the Standardized terms box.





Add Diagnoses & Procedures	102/Red panda/I5521-01138/Male 🖪 🛛 🛛
Batch Diagnoses	A
Animal ID * 102 / Red panda / ISS21-01138 ×	Onset Date * 02/28/2022 00:00
Health Status	Responsible Clinician *
Add new	Hannah Jenkins 💌
Quick Diagnosis/procedure (e.g. Hoof trim) 🖓	Confidence Level
Search for a single term	Please Select
Not in the list? Add New Term	🗌 Unresolveable 🔇
OR	
Diagnosis with modifiers (Otitis, left, ear) Use commas to separate multiple medical terms Validate Terms Standardized Terms	
Term Type	
OTITIS Medical Conditi X	
Left Anatomical Mo 💥	
ear Anatomical 🗙	
L	
	•
	🚽 Save 🛛 🚽 Save & Repeat 🛛 🚫 Cancel

Please review the business rules here.

Health Status Conflict

If you add a Diagnosis & Procedure which conflicts with the Health Status, a warning will appear alerting you to the conflict. You should always ensure the Health Status is correct to ensure data integrity.

-	
	Warning!
	There is an active medical issue starting Feb 28, 2022 but the health status is listed as Normal for this date. Would you like to update the Health Status?
	Yes No

Clicking Yes will bring up the Add/Edit Health Status box and prefill the Status to Abnormal, and Date to the Date of Entry Read more on Health Status in this <u>Health Status ZIMS Help Document</u>

Read more on Health Status in this <u>Health Status ZIMS Help Dod</u>

Batch Diagnosis

You can add a Diagnosis & Procedure to multiple animals/groups by completing a Batch Diagnosis & Procedure. In the Add Diagnosis & Procedures pop-up, tick the Batch box (1).



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Add Diagnoses & Procedures 10	02/Red panda/ISS21-01138/Male F4
● Batch Diagnoses	
2 Please Select	▼
Provide local ids / GANs for each animal to diagno Press or after each local id / GA	AN: AN:
Quick Diagnosis/procedure (e.g. Hoof trim) 😲	Onset Date *
Search for a single term	02/28/2022 🖸 00:00
Not in the list? Add New Term	Responsible Clinician *
OR	Hannah Jenkins 👻

Add the animals/groups to your Diagnosis by either selecting an animal list (2), entering the Local IDs manually (3), or using the Search function (4) to search for IDs to add. Read more in the <u>Medical Batch Actions help document</u>.

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Associating Records

Once a diagnosis or procedure is saved, you can associate (link) it with Clinical Signs, Finding entries, as well as Clinical Notes.

Within the Medical Dashboard, select the Diagnosis & Procedure you wish to associate, then when viewed in the bottom panel, click Associate.

😁 New 🗸 🖹 Edit 🛛 🗶 Delete 🛛 🗄 Manage A	nimal Lis	ts 🗸 🛛 🍣 Reload medical	list 🛛 🎝 Export medical lis	st 🛛 🥥 Medical Rep	oorts • Medical Apps • <u>(</u>) Sample Storag	e				Help Mer	nu 🗸 🔞 My Calendar
Dashboard 😲		Animal	(6 Records)	Date	Details			Responsible Staff		Basic Info	
Select animal to see detail	□ 01/	31/2022							I	dentifiers	GAN:ISS21-01134
Records	E	101 / Red panda / ISS2	21-01134	01/31/2022	Medical alert: Example medical alert.		4	Hannah Jenkins	L	ocal ID	101
a 😋 101/Ailurus fulgens/R 🛛 🖓 🗙 📰	• 0	101 / Red panda / ISS	21-01134	01/31/2022	Saline 0.9% Injection (Liquid > Solution)	5 ml every 5	days for 4 doses Injection	Hannah Jenkins	H	louse Name	Bob
Clinical notes (2)		101 / Red panda / ISS	21-01134	01/31/2022	00:00 / Serum / /			Rachel Thompson	T	ransponder	123 00 00000 00000 Species260
Diagnoses & Procedures (1)		101 / Red panda / ISS2	21-01134	01/31/2022	Serum / SPECIE360 / Chemistry/Fluid Ar	nalysis(2/2)		Rachel Thompson	5	ex	Male
Prescriptions/ Treatments (1)		2 · ·							5	icientific Name	Ailurus fulgens
Vests & Results (1)	01/	24/2022							C	ommon Name	Red panda
Anesthesia		1017 Red panda / ISS.	21-01134	01/24/2022	General: Manual restraint for routine exa	m and sample	e collection. Physical e	Hannan Jenkins	В	lirth	11/01/2021
Necropsy/Biopsy	⊟ 01/	04/2022							A	ge	0Y 3M 27D
Physiological measurements	• (101 / Red panda / ISS	21-01134	01/04/2022	Clinical Sign: Lame			Hannah Jenkins	A	rrival	12/14/2021
Diagnostic imaging			-						0	owner 1	SPECIE360
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				-		1				ollection	Primary Animal
		SAN	Preterred ID	Taxonomy		Sex	Birth Date	Age			Collection
	61	SS21-01134	101	Ailurus fulge	ens/Red panda	Male	11/01/2021	DY 2M 3D	н	lealth Status	Normal (01/31/2022)

By clicking on associate, you can select any clinical signs, findings, or notes to associate with this diagnosis or procedure. You are restricted to associations that occur recently – if the diagnosis or clinical note occurred earlier than 30 days prior to this entry the association will not be possible.





Lame is th	he current diagnosis. Indicate any existing records that should be associated with	this diagnosis.		\mathbf{X}			
	Details	Onset Date/Created Date	Responsible Clinician				
	$\label{eq:General:Manual} General: Manual restraint for routine exam and sample collection. Physical exam finding$	01/24/2022	Hannah Jenkins				
	Save Associations 🚫 Cancel						

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Resolving diagnosis and procedures

By clicking on resolve, you can enter a resolution date for this diagnosis or procedure.

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Dashboard 😲				Animal	(6 Records)	Date	Details			R	esponsible Staff		🍣 🛛 Basic Info	
Select animal to see detail	Q	. 0	1/31	/2022									Identifiers	GAN: ISS21-01134
Records	7 .			101 / Red panda / ISS2	1-01134	01/31/2022	Medical alert: Example medical alert.		4	a) F	lannah Jenkins		Local ID	101
▲	7 X 🗉	•	ß	101 / Red panda / ISS2	1-01134	01/31/2022	Saline 0.9% Injection (Liquid > Solution)	5 ml every 5	days for 4 doses Injection	H	lannah Jenkins		House Name	Bob
Clinical notes (2)			ě	101 / Red nanda / ISS2	1.01134	01/31/2022	00:00 / Serum / /			R	achel Thompson		Transponder	123 00 00000 00000
Diagnoses & Procedures (1)													Current Enclosure	Species360
Prescriptions/Treatments (1)			e	101 / Red panda / ISS2	1-01134	01/31/2022	Serum / SPECIE360 / Chemistry/Fluid A	nalysis(2/2)		Ri	achel Thompson		Sex	Male
Samples (1)		a 0	1/24	/2022									Scientific Name	Ailurus fulgens
Tests & Results (1)			-	404 (Ded seeds (1000)	04424	04/24/2022	Occurrent Manual anatosiat (as continue as			-	lanash tashira		Common Name	Red panda
Anesthesia			Ð	TOT / Red panda / 1552	1-01134	01/24/2022	General: Manual restraint for foutine exa	im and sampi	e collection. Physical e		rannan Jenkins		Birth	11/01/2021
Necropsy/Biopsy		B 0	L/04	/2022								_	Age	0Y 3M 27D
Physiological measurements		•	4	101 / Red panda / ISS2	1-01134	01/04/2022	Clinical Sign: Lame			F	annah Jenkins		Arrival	12/14/2021
Diagnostic imaging			Ψ.				-						Owner	SPECIE360
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			GA	N	Preferred ID	Taxon	omy	Sex	Birth Date	Age		1	Collection	Primary Animal Collection
		6	ISS	21-01134	101	Ailurus	fulgens/Red panda	Male	11/01/2021	0Y 2M	1 3D		Health Status	Normal (01/21/2022)

When resolving an active problem you are presented with the option to update the health status at the same time- we recommend updating the health status as frequently as needed to accurately represent the patients current condition.



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Marking Invalid - Deleting Records

There is also a concept of marking a diagnosis as invalid rather than deleting it. If a diagnosis has treatments associated with it, user may want to retain that link to validate the treatment plan as it was based on a diagnosis that was later found to be invalid.



Ex: I thought it was bacterial pneumonia and turned out to be fungal pneumonia. The bacterial pneumonia diagnosis led to a decision to treat with antibiotics. I don't want to delete this diagnosis in favor of fungal pneumonia, but rather mark bacterial pneumonia as invalid. Alternatively, if the record was entered in error, you can delete it from the animals file.

ashboard 2		Animal	(2 Records)	Date	Details	2 Basic Info	
Select animal to see detail	3 28/1	ov/2017				GAN Identifiers	80015-00070-
Records	•	Hawaiian monk seal / RCV15-03		28/Nov/2017	Clinic	Current Enclosure	MINNESOTA
Clinical notes (36)	3 08/1	ov/2017				Sex	Female
Diagnoses & Procedures (2)	•	13913 / Moose / RCV1	4-01537	08/Nov/2017	Clinic	Scientific Name	Monachus schauinslandi
Samples (36)						Common Name	Hawaiian monk seal
Tests & Results (36)						Birth	Hiteritani.
Anesthesis (8)						Age	22Y 5M 9D
NecropsylBiopsy (1)						Arrival	09/May/2015
Diagnostic imaging						Owner (NMES SEAT
G top to top top	1					Holder	MENNESOTA
						Last Weight	~458.5 pound
						Add New Weight	(11/Nov/2017)
						Collection	Animal Collection
						strukt Flatter	/2017)
						Body Condition	5/9 (01/Jun/2017)
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medical procedures within the	nedical hist	osis from the database	e. If this entry explains t marked as invalid. Syste	m will remove all		🖵 UTERINE, Pyome	Denstra 1
relationships with other diagnos	is records f	for either deletion or i	nvalidation.			Active Prescriptic	Resolve
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	Diagonatia	Mark Diagnosis as Inval	lid Cancel			and (ree mg t	: 000
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More resources in the Training Index.

Revised 6 January 2023