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### Short report

# Ethnobotanical knowledge of the Istro-Romanians of Žejane in Croatia

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#### Abstract

An ethno-pharmacognostic survey was carried out in one of the smallest ethnic and linguistic groups in Europe: the Istro-Romanians of the village of Žejane (in Croatia), which has a population of approximately 140 persons, mainly elderly. Using an intensive field participant observation methodology, we recorded about 60 remedies of the local folk pharmacopoeia, and mainly derived from plants. Among them, the uncommon traditions to use homemade vinegar from wild apple (*Malus sylvestris*) and Cornelian cherries (*Cornus mas*) for diverse medical purposes, and houseleek (*Sempervivum tectorum*) against ear pains have been briefly discussed.

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**Study area.** The area that was investigated in this study is located in the North-Eastern part of the Istrian peninsula (Fig. 1), in Croatia. This inland karstic territory, characterized by numerous dolines, is called in Croatian Čičarija (in Italian Ciceria),

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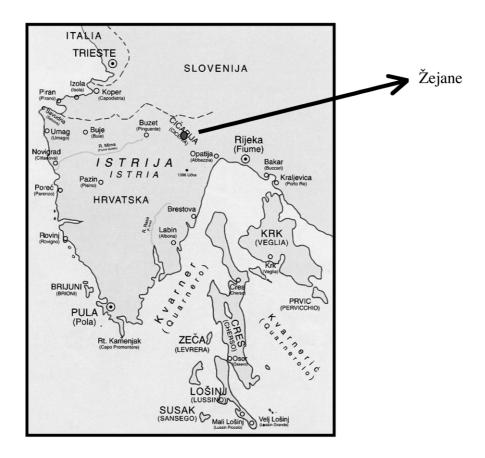


Fig. 1. Location of the studied area.

and presents a typical mountainous and sub-alpine flora. We concentrated our field study in the small village of Žejane (in the local language known as Žejàn), inhabited by one of the smallest ethnic and linguistic group of the world: the Istro-Romanians.

**Population.** The population of Žejane (about 140 inhabitants at present) is Istro-Romanian. In the nearby regions they were known during the past as 'Čiribirci' in Croatia, and 'Cicci' in Italy. Their original language belongs to the Romanian group, together with proper Romanian, Macedo-Romanian or Arumanian, and Megleno-Romanian or Meglenitic [1] and is listed in the UNESCO Red Book of Endangered Languages as 'seriously endangered' [2].

Istro-Romanian is classified by linguists in two subgroups: the dialect called locally 'žejànski', and spoken only in Žejane, and the dialect called locally 'vlåški' and spoken in a few centres on the southern side of the Učka Gora mountain

(Monte Maggiore) located ca. 80 km south of Žejane: Šušnjevica (Susńevice or Šušńevice in Istro-Romanian), Nova Vas (Noselo or Nosela in Istro-Romanian), Brdo (Bàrda in Istro-Romanian), Jesenivik (Sucòdru in Istro-Romanian) and a few other very small villages consisting of no more than 10 households [3,4].

This group probably arrived in Istria around the 14th century (the first records of them date back to 14–15th century [5]) from the Carpathian basin, and were dedicated to pastoral activities. For many years, these Romanian populations have inhabited an area between the Austrian Empire and the Republic of Venice, and became well known in Istria as charcoal burners, coalmen, vinegar producers and traders [6].

**Aim of the study.** The scope of this field research was to study the use of folk-medical practices among the few remaining people of Zejane.

**Previous knowledge on local folk medicine.** No ethnobotanical work has been carried out in Istria in the last century. Only a very small folkloric survey was carried out in the 1970s [7], as well as taxonomic-botanical studies [8]. Among the Istro-Romanians, only a phytolinguistic survey on the 'vlåški' dialect has been recently conducted [9], as well as an ethnolinguistic survey on bird and insect names [10,11].

**Methodology.** The fieldwork was conducted over a period of four weeks in August 2002, with the last remaining elderly population of the village of Žejane. Only old people, native of the village and still speaking in their daily domestic life as Istro-Romanian, were interviewed. Ethnobotanical, ethnopharmaceutical and ethnomedical information were collected using participant observation method and semi-structured interviews [12] with 31 persons (17 women and 14 men, aged between 49 and 82), who still retain traditional knowledge (TK) or remembrances of these practices. Voucher specimens of non-domesticated medicinal plants were identified and stored together with more than 40 h of tape, photos and audio-video records at the first author's address. Botanical nomenclature follows the standard works of the Italian and Istrian flora [8,13].

**Results.** Natural ingredients representing the folk pharmacopoeia of the Istro-Romanians of Žejane are reported in Table 1 (plants) and Table 2 (animal and other non-locally produced ingredients). In the transcription of the vernacular names of the plants, Istro-Romanian transcription rules were used [4,9]. Frequency of quotation, disappeared uses, and prevalence of female or male expertise for each taxon were recorded as well.

Table 1 Plant remedies of the folk pharmacopoeias of the Istro-Romanians of Žejane in Croatia

Botanical taxon (and voucher specimen code)	Botanical family	Istro-Romanian name(s) recorded in Žejane	Status	Quotation frequency	Part(s) used	Preparation	Administration	Claimed medical use
Abies alba Mill. (ZEJABI)	Pinaceae	ielva	W	*	resin (şmólę)	-	topical application	antiseptic (also in veterinary)
Achillea millefolium L. (ZEJACH)	Compositae	odulina	W	**	flowering tops	decoction	drunk	anti-obesity and digestive
Allium sativum L.	Liliaceae	ai	C	**	bulbs (şcopî)	oleolite	drunk	vermifuge
Artemisia absinthium L. (ZEJART1)	Compositae	pèlen; pelin	W	* * *	aerial parts	decoction	drunk	digestive
Artemisia vulgaris L. (ZEJART2)	Compositae		W	*	aerial parts	decoction	drunk	digestive
Beta vulgaris L.	Chenopodiaceae	blitva	C	♣ ♣	leaves	-	cooked	depurative
Betula pendula Roth (ZEJBET)	Betulaceae	vrba	W	**	young leaves	decoction	drunk	anti-arthritis
Brassica oleracea L.	Cruciferae	capùz	С	* *	leaves	-	topical application (back side of the leaf in contact with the skin)	cicatrising
				***	aerial parts	liquid remaining from the fermentation process for producing Sauerkraut (verze)	drunk	to heal haemorrhoids ( <i>taboo</i> : women in childbirth should avoid its use otherwise the baby could get an intestinal colic)
		coruta		***	leaves	-	fodder	veterinary: nutraceutical for swine
Carum carvi L. (ZEJCAR)	Umbelliferae	kimel	W	***	fruits	decoction; macerate in <i>raki</i>	drunk	digestive
Centaurium erytrhaea Rafn. (ZEJCEN)	Gentianaceae	tåvžântróže	W	*	aerial parts	decoction	drunk	digestive
Chelidonium	Papaveraceae	snoinița	W	*	latex	_	topical application	anti-warts

Table 1 (Continued)

Table 1 (Continued)								
Botanical taxon (and voucher specimen code)	Botanical family	Istro-Romanian name(s) recorded in Žejane	Status	Quotation frequency	Part(s) used	Preparation	Administration	Claimed medical use
majus L. (ZEJCHE)								
Cornus mas L. (ZEJCOR)	Cornaceae	corn	W	<b>* * *</b> *	fruits	fermented to produce vinegar (otet)	see Malus sylvestris	see Malus sylvestris
				*	fruits	syrup	drunk	nutraceutical
Cucurbita pepo L.	Cucurbitaceae	tìcvę	С	* * *	fruits	_	fodder	veterinary: nutraceutical for swine
Euphorbia sp.	Euphorbiaceae	iårba de şerpe	W	**	latex	_	topical application	anti-warts
Fragaria vesca L. (ZEJFRA)	Rosaceae	fråžica	W	*	fruits	_	consumed	nutraceutical
Juniperus communis (ZEJJUN)	Cupressaceae	smríca	W	<b>*</b> *	galbules (briń)	distilled oil	external application	anti-rheumatic
Malus sylvestris MILL. (ZEJMAL)	Rosaceae	lìsnic	W	<b>* *</b> *	fruits	fermented to produce vinegar (otet)	drunk	anti-obesity
				***		· megai (ojei)	heated and topically	anti-bruises (also in
							applied	veterinary)
				***			heated and topically applied by a cloth on feet or hands	•
				<b>* *</b> *			topically applied	to heal headache
				* *			fodder	veterinary: nutraceutical for swine
Matricaria recutita L. (ZEJMAT)	Compositae	camomila	W	**	flowering tops	decoction	drunk	digestive; tranquilliser; vermifuge (children)
Medicago sativa L. (ZEJMED)	Leguminosae	iårba şpågňa	W	**	aerial parts	-	fodder	veterinary: nutraceutical for rabbits
Plantago lanceolata L. (ZEJPLA)	Plantaginaceae	bucviţa	W	**	leaves	-	topical application	cicatrising
Prunus domestica L.	Rosaceae	čespa; sliva	C	**	fruits	distillate	topical application	cicatrising
Rosa canina L. (ZEJROS)	Rosaceae	şípâc	W	* *	pseudofruits	decoction	drunk	depurative
Rubus idaeus L. (ZEJRUB1)	Rosaceae	målinita	W	* *	fruits	-	consumed	nutraceutical

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L. (ZEJRUM)  Sambucus nigra L.  Caprifoliaceae bsga  W  AAA  fruits  fruits  decoction  drunk  drunk  Secale cereale L.  Graminae  Secâra  C  AAAA  fruits  flower  seeds → flour  (faríre de secâra)  and potatoes  Consumed  (faríre de secâra)  solanaceae  cumpir  C  AAAA  flowers  cooked with water  consumed  (faríre de secâra)  and potatoes  tubers  cut in slices  cooked with rye  flour and water  thoney' (obtained  cooking the flowers  with sugar)  consumed  Tilia cordata  MILL. (ZEJTIL)  Trifolium sp. pl.  Leguminosae  Triticum aestivum L.  Graminae  grâv  C  AAA  fruits  decoction  drunk  flower  syrup  cooked with water  consumed  flowers  tubers  cut in slices  cut in slices  topical applic  cooked with rye  flowers  honey' (obtained  cooking the flowers  with sugar)  consumed  flowers  decoction  drunk  Tilia cordata  MILL. (ZEJTIL)  Trifolium sp. pl.  Leguminosae  trefoi; dîtel'à  W  AAA  aerial parts  -  fodder  Triticum aestivum L.  Graminae  grâv  C  AAA  seeds → flour  (faríre de  made by cooking  fârmenta)  together flour,	on Claimed medical use	Administration	Preparation	Part(s) used	Quotation frequency	Status	Istro-Romanian name(s) recorded in Žejane	Botanical family	Botanical taxon (and voucher specimen code)
SCHOTT.  (ZEJRUB2)  ** Whole aerial parts dried fodder, mixed wheat bran syrup drunk  ** Whole aerial parts dried fodder, mixed wheat bran syrup drunk  ** Secale cereale L.  ** Graminae secăra C ** ** ** ** ** ** ** ** ** ** ** ** *	nutraceutical	drunk	syrup		*				
Rumex acetosella       Polygonaceae       kiselita       W       ♣♣       whole aerial parts with seeds       dried wheat bran wheat bran wheat bran flower         Sambucus nigra L.       Caprifoliaceae       bsga       W       ♣♣       fruits flower       decoction syrup drunk         Secale cereale L.       Graminae       secåra       C       ♣♣♣       flower seeds → flour cooked with water consumed         Sempervivum tectorum L: (ZEJSEM)       Crassulaceae       pičór de galíre w cumpir       C       ♣♣       tubers cut in slices cooked with rye consumed         Solanum tuberosum L.       Solanaceae       divlia radice; maslačac       W       ♣♣       flowers       'honey' (obtained cooking the flowers with sugar)         Weber (ZEJTAR)       Whorls       —       consumed cooking the flowers with sugar)         Tilia cordata       Tiliaceae       lipa       W       ♣♣       flowers       decoction       drunk         Trifolium sp. pl.       Leguminosae       trefoi; ditel'à       W       ♣♣       aerial parts       —       fodder         Triticum aestivum L.       Graminae       grâv       C       ♣♣       seeds → flour (farire de flour, foot preparation part foot preparation foot preparation part foo	nutraceutical	consumed	_	fruits	* * *	W	mùrgvâ	Rosaceae	SCHOTT.
L. (ZEJRUM)  Sambucus nigra L.  Caprifoliaceae bsga  W  AAA  fruits  fruits  decoction  drunk  drunk  Secale cereale L.  Graminae  Secâra  C  AAAA  fruits  flower  seeds → flour  (faríre de secâra)  and potatoes  Consumed  (faríre de secâra)  solanaceae  cumpir  C  AAAA  flowers  cooked with water  consumed  (faríre de secâra)  and potatoes  tubers  cut in slices  cooked with rye  flour and water  thoney' (obtained  cooking the flowers  with sugar)  consumed  Tilia cordata  MILL. (ZEJTIL)  Trifolium sp. pl.  Leguminosae  Triticum aestivum L.  Graminae  grâv  C  AAA  fruits  decoction  drunk  flower  syrup  cooked with water  consumed  flowers  tubers  cut in slices  cut in slices  topical applic  cooked with rye  flowers  honey' (obtained  cooking the flowers  with sugar)  consumed  flowers  decoction  drunk  Tilia cordata  MILL. (ZEJTIL)  Trifolium sp. pl.  Leguminosae  trefoi; dîtel'à  W  AAA  aerial parts  -  fodder  Triticum aestivum L.  Graminae  grâv  C  AAA  seeds → flour  (faríre de  made by cooking  fârmenta)  together flour,	nutraceutical	drunk	syrup		•				
Secale cereale L.  Graminae  Secăra  C  AAA  flower  syrup  drunk  consumed  (farire de secăra)  and potatoes  instilled in th  Solanum tuberosum L.  Solanaceae  cumpir  C  AAA  tubers  cooked with water  consumed  instilled in th  Solanum tuberosum L.  Solanaceae  cumpir  C  AAA  tubers  cooked with rye  consumed  flour and water  flour and water  flour and water  cooking the flowers  with sugar)  Tilia cordata  MILL. (ZEJTIL)  Trifolium sp. pl.  Leguminosae  grâv  C  AAA  flower  syrup  drunk  flower  syrup  consumed  cooked with water  cooked with rye  consumed  flour and water  cooking the flowers  with sugar)  AAA  flowers  flowers  flowers  flowers  flowers  flowers  flowers  flowers  flowers  decoction  drunk  Triticum aestivum L.  Graminae  grâv  C  AAA  flowers  flo	d with veterinary: anti-diari for cattle	fodder, mixed with wheat bran	dried	•	**	W	kiseliţa	Polygonaceae	
Secale cereale L.       Graminae       secâra       C       ***       seeds → flour (farire de secâra)       cooked with water and potatoes       consumed         Sempervivum tectorum L: (ZEJSEM)       Crassulaceae       pičór de galíre cumpir       W       *       leaf juice       —       instilled in the topical application topical application topical application topical application topical application topical application to cooked with rye consumed flour and water topical application topical ap	anti-fever	drunk	decoction	fruits	<b>* *</b>	W	bsga	Caprifoliaceae	Sambucus nigra L.
Sempervivum tectorum L: (ZEJSEM) Crassulaceae pičór de galíre W ♣ leaf juice — instilled in the Solanum tuberosum L. Solanaceae cumpir C ♣ tubers cut in slices topical application consumed flour and water flour and water with sugar)  Taraxacum officinale Compositae divlia radice; W ♣ flowers honey' (obtained consumed cooking the flowers with sugar)  Tilia cordata Tiliaceae lipa W ♣ flowers decoction drunk  MILL. (ZEJTIL)  Trifolium sp. pl. Leguminosae trefoi; ditel'à W ♣ aerial parts — fodder  Triticum aestivum L. Graminae grâv C ♣ seeds → flour food preparation consumed fârmenta) together flour,	nutraceutical	drunk	syrup	flower	* * *		_	_	_
Solanum tuberosum L.       Solanaceae       cumpir       C       ♣♣       tubers       cut in slices       topical applic cooked with rye flour and water         Taraxacum officinale Weber (ZEJTAR)       Compositae       divlia radice; maslačac       W       ♣♣       flowers       'honey' (obtained cooking the flowers with sugar)         Tilia cordata MILL. (ZEJTIL)       Tiliaceae       lìpa       W       ♣♣♣       flowers       decoction       drunk         Trifolium sp. pl.       Leguminosae       trefoi; dîtel'à       W       ♣♣       aerial parts       -       fodder         Triticum aestivum L.       Graminae       grâv       C       ♣♣       seeds → flour food preparation made by cooking fûrmenta       consumed	roborant	consumed			<b>* * *</b> *	C	secåra	Graminae	Secale cereale L.
Taraxacum officinale Weber (ZEJTAR)  Compositae  divlia radice; maslačac  W	ne ear to heal pains of the	instilled in the ear	-	leaf juice	•	W	pičór de galíre	Crassulaceae	Sempervivum tectorum L: (ZEJSEM)
Weber (ZEJTAR) maslačac cooking the flowers with sugar)  Tilia cordata Tiliaceae lîpa W $\clubsuit \clubsuit \clubsuit$ whorls — consumed drunk MILL. (ZEJTIL)  Trifolium sp. pl. Leguminosae trefoi; dîtel'à W $\clubsuit \clubsuit \clubsuit$ aerial parts — fodder  Triticum aestivum L. Graminae grâv C $\clubsuit \clubsuit \clubsuit$ seeds $\rightarrow$ flour food preparation consumed (farire de made by cooking trefoired formenta) together flour,	cation anti-headache roborant	topical application consumed	cooked with rye	tubers		С	cumpir	Solanaceae	Solanum tuberosum L.
Tilia cordata MILL. (ZEJTIL)       Tiliaceae       lìpa       W       * * * *       flowers       decoction       drunk         Trifolium sp. pl.       Leguminosae       trefoi; dîtel'à       W       * * *       aerial parts       -       fodder         Triticum aestivum L.       Graminae       grâv       C       * * *       seeds $\rightarrow$ flour (farire de fârmenta)       made by cooking together flour,       consumed	antitussive	consumed	cooking the flowers	flowers	**	W	,	Compositae	33
MILL. (ZEJTIL)  Trifolium sp. pl.  Leguminosae trefoi; dîtel'à W $\clubsuit \clubsuit$ aerial parts – fodder  Triticum aestivum L.  Graminae grâv C $\clubsuit \clubsuit$ seeds $\rightarrow$ flour food preparation made by cooking together flour,	nutraceutical	consumed	_	whorls	* * *				
Triticum aestivum L. Graminae grâv C $\clubsuit \clubsuit$ seeds $\rightarrow$ flour food preparation consumed (farire de made by cooking fârmenta) together flour,	non specified	drunk	decoction	flowers	***	W	lìpa	Tiliaceae	
(farire de made by cooking fârmenta) together flour,	veterinary: nutraceut for rabbits, cattle, sy	fodder	-	aerial parts	**	W	trefoi; dìtel'à	Leguminosae	Trifolium sp. pl.
eggs and water	galactagogue	consumed	made by cooking together flour, butter, butter, sugar,	(faríre de	* *	С	grâv	Graminae	Triticum aestivum L.
C ♣ seeds → flour food preparation consumed made by boiling wheat flour and milk	roborant (children)	consumed	food preparation made by boiling wheat flour	seeds → flour	*	С			
Urtica dioica L. Urticaceae copriva; W & leaves boiled consumed	nutraceutical	consumed		leaves	*	W	copriva:	Urticaceae	Urtica dioica L.

urzica

(ZEJURT)

Table 1 (Continued)

Botanical taxon (and voucher specimen code)	Botanical family	Istro-Romanian name(s) recorded in Žejane	Status	Quotation frequency	Part(s) used	Preparation	Administration	Claimed medical use
Vaccinium myrtillus L. (ZEJVAC)	Ericaceae	iåvorica	W	* *	fruits	-	food	nutraceutical
Viscum album L. (ZEJVIS)	Loranthaceae	bìsk	W	<b>*</b> *	aerial parts before fructification	macerate in <i>raki</i> with honey	drunk	digestive
Zea mais L.	Graminae	grìs	С	* * *	seeds → flour (faríre de griz)	cooked with water and potatoes	consumed	roborant

Status: C: cultivated; W: wild.

Quotation frequency: Aquoted by less than 10% of the informants; \*\* quoted by more than 10% and less than 40% of the informants; \*\* disappeared use.

Table 2 Animal, mineral, and other remedies used in folk medical practices among the Istro-Romanians of Žejane in Croatia

Ingredient	Quotation frequency	Preparation	Administration	Claimed medical use
black ribbon	**	_	knot on the skin	anti-warts
cattle faeces	<b>*</b> *	_	topical application	to heal burns
coal	<b>* * *</b>	putting water on hot coal, and playing a special formula (while making three time the Holy Cross)	washes	against the evil eye (uróki)
grape distillate (raki)	<b>*</b> *	_	topical application	cicatrising
grape vinegar (oţet)	<b>.</b>	_	see Malus sylvestris	see Malus sylvestris
milk cream	<b>.</b>	_	topically applied	to heal psoriasis
ritual	<b>* *</b> *	_	one has to ask the ill person: 'What are you doing?'; he/she has to answer: 'I cut barley', and simulating this action; all that has to be repeated for three times	to heal sty ( <i>orz</i> , same name used for barley)
salt	<b>* *</b>	mixed with water and straw	fodder	veterinary: roborant for cattle
snake skin	<b>*</b> *	roasted on the pot, then an infusion is prepared	drunk	against high fever
	<b>.</b> *	_	consumed	to heal lunge diseases
soil	<b>.</b> *	_	leg kept into the soil	against viper bite in the leg
sugar	*	heated in a pot (sometimes with a few drops of olive oil), often adding milk	consumed/drunk	antitussive
wine	* * *	boiled wine with bread and sugar	consumed	galactagogue

Quotation frequency: 4: quoted by less than 10% of the informants; 4: quoted by more than 10% and less than 40% of the informants; 4: disappeared use.

Conclusions. The folk pharmacopoeia of the Istro-Romanians of Žejane present elements of diverse origin: uses, which are very common in the Austro-German area (caraway, *Carum carvi*; sauerkraut, fermented *Brassica oleracea*; wormwood, *Artemisia absinthium*; silver fir, *Abies alba*; juniper, *Juniperus communis*) [14], others maybe also learnt and acquired from the Croatians and even which have been widely documented in the past in a broad Central European area [15] (wormwood, dandelion flowers, *Taraxacum officinale*; elderberry flowers, *Sambucus nigra*), and others coming from the Venetian coastal area (grape distillate, wine).

Nevertheless, we also recorded uses that seem to suggest the permanence of a few signs of a possible original Romanian folk pharmacopoeia. The most interesting of these recorded practices regards *Sempervivum tectorum* (houseleek), used among the Istro-Romanians against ear pains, and the a few medicinal uses of homemade vinegar.

A similar use of *S. tectorum* was recorded in Tuscany [16]; recently, polyphenols from this species have shown antimicrobial activity [17], while the antioxidant [18] and liver protecting activity of its extracts [19,20] have been previously demonstrated.

Vinegar was traditionally produced in Žejane from wild apples (*Malus sylvestris*) and Cornelian cherries (*Cornus mas*). Informants told us that only later in the 20th century they began to buy grape vinegar from the Italo-Venetians along the Istrian coasts (vines were never cultivated in Čičarija) and continue in this other way their very old tradition of transporting it to the markets of Trieste and Vienna. The use of vinegar, whose homemade production is frequently mentioned in the Romanian folklore [21], is used in the studied area internally as anti-obesity product, and externally against bruises, fever and headache. This phenomenon should be further investigated in order to understand also the difference in the phytochemistry between grape vinegar and wild apples and Cornelian cherries vinegar. Folk medical practices are represented in Žejane in a mainly female domain, as field studies in other Mediterranean areas [22] have also pointed out: men's expertise is generally circumscribed to veterinary practices, and only rarely, as in case of distillates, play a role in the traditional knowledge related to the domestic cosmos.

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