Supplementary

Table S1 Published reports of patients with subphrenic jujube pits (5-10)

Parameters	Subtype	Lavers, 1964	Li, 2017	Li, 2019	Liu, 2020	Ma, 2021	Song, 2021	All
Numbers of patients		1	1	18	2	1	22	45
Clinical manifestations								
Age (year)	<6	0	0	0	2	0	NA	2
	6-18	0	0	0	0	0	NA	0
	19-50	0	0	3	0	0	NA	3
	>50	1	1	15	0	1	NA	18
Sex	Male	0	0	11	1	1	NA	13
	Female	1	1	7	1	0	NA	10
Dietary history	Awareness of jujube pit ingestion at first	0	NA	9	0	0	NA	9
	Recall of jujube ingestion after jujube pit removed	1	NA	NA	NA	NA	NA	1
Symptoms	Abdominal pain	1	1	18	0	1	NA	21
	Nausea/vomiting	0	1	14	0	1	NA	16
	Asymptomatic	0	0	0	0	0	NA	0
Duration of symptoms (day)	≤1	1	NA	NA	0	0	NA	1
	2–3	0	NA	NA	0	0	NA	0
	4–7	0	NA	NA	0	0	NA	0
	>7	0	NA	NA	2	1	NA	3
Physical signs	Fever	0	0	11	1	0	NA	12
	Abdominal tenderness	0	0	4	0	1	NA	5
	Tenderness and rebound Tenderness	1	1	14	0	0	NA	16
Laboratory findings	Elevated inflammation indicators[†]	1	1	18	0	1	NA	21
	Normal	0	0	0	2	0	NA	2
Jujube pits identified by CT, surgery or endoscopy and complications								
Location of jujube pits at first	Stomach	0	0	0	0	0	20	20
	Small intestine	1	1	18	0	0	2	22
	Colon	0	0	0	0	1	0	1
	Rectum	0	0	0	1	0	0	1
	Outside the GI tract	0	0	0	1[‡]	0	0	1
Size (Long diameter)	<25 mm	0	NA	NA	0	0	NA	0
	≥25 mm	1	NA	NA	2	1	NA	4
Perforation		1	1	18	2	1	NA	23
Treatments								
Treatments	Endoscopic removal	0	0	0	0	1	22	23
	Surgical removal	1	1	15	2	0	0	19
	Conservative treatments	0	0	3	0	0	0	3

[†], Elevated inflammation indicators: white blood cell counts, the percentages of neutrophil granulocyte, and C-reactive protein. [‡], The jujube pit was migrated from rectum. NA, not available; CT, computed tomography; GI, gastrointestinal.

Table S2 Detailed CT imaging parameters utilized for 22 enrolled patients

Parameter	1	2	3	4	5
Tube voltage (kV)	100-120	100-120	100-120	120	100
Tube current (mA)	Automatic	Automatic	Automatic	Automatic	Automatic
Matrix	512×512	512×512	512×512	512×512	512×512
Detector pitch	0.984:1	0.813	0.813	1.375:1	0.984:1
Reconstruction thickness (mm)	1.25	1.0	1.0	1.25	1.25
Slice interval (mm)	1.25	0.8	0.8	1.25	1.25

The corresponding serial number representing different CT scanners was displayed as follows: 1= Discovery CT750 HD, GE healthcare, Milwaukee, WI, USA; 2= AquilionOne TSX-301A; TOSHIBA, Japan; 3= Aquilion PRIME; TOSHIBA, Japan; 4= BrightSpeed; GE Healthcare, USA; 5= Optima CT660, GE Healthcare, USA. CT, computed tomography.

Table S3 Basic characteristics of 10 kinds of jujube pits

Sample ID	Trade name	Producing areas	Cultivar	weight of dried jujube fruits (g)	Long diameter of jujube pits (cm)	Short diameter of jujube pits (cm)
S1	Lelingzao	Leling	Ziziphus jujuba	3.07±0.43	1.58±0.12	0.67±0.06
S2	Jishanbanzao	Jishan	Jishan jujube	5.12 ±0.28	1.87±0.23	0.57±0.08
S3	Jinsixiaozao	Cangzhou	Ziziphus jujuba	3.46±0.35	1.99±0.13	0.72± 0.04
S4	Huizao	Ruoqiang	Huizao	4.99±0.86	2.08±0.13	0.58±0.08
S5	Jiaxiandazao	Jiaxian	Jujube dates	9.07 ±1.83	2.28±0.15	0.73±0.08
S6	Huanghetanzao	Liulin	Tanzao	7.08±1.62	2.50±0.20	0.89±0.11
S7	Hupingzao	Taigu	Huping dates	11.18±2.15	2.84±0.22	0.73±0.08
S8	Goutouzao	Yanchuan	Jujube dates	11.34±2.22	3.12±0.13	0.65±0.05
S9	Shandongdazao	Taian	Jujube dates	12.08±2.25	3.56±0.11	0.69±0.11
S10	Hetiandazao	Hetian	Jujube dates	7.69 ± 1.42	3.62±0.22	0.80±0.079

The data of weight, long diameter and short diameter are presented as mean ± standard deviation.

Table S4 CT features of 11 patients with intestinal perforation caused by jujube pits

CT features	No. (%)
Indirect signs of perforation	
Pit piercing the intestine and lodged in the intestinal wall	10 (90.9%)
Migration to parenteral	1 (9.1%)
Direct signs of perforation	
Bowel wall thickening	11 (100%)
Fat stranding	10 (90.9%)
Pneumoperitoneum	9 (81.8%)
Fluid collection	6 (54.5%)
Abscess	3 (27.3%)
Associated intestinal obstruction	6 (54.5%)

CT, computed tomography.
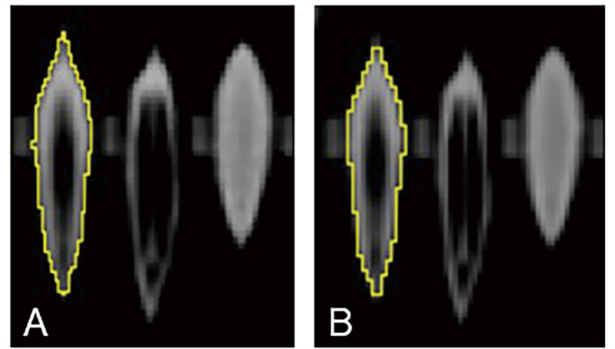
ROI	Area	Mean-HU	Min-HU	Max-HU
A	94.570	-72.479	-588	278
B	94.414	-72.141	-556	197

Figure S1 The largest section of jujube pit was marked as a ROI that was plotted along the border of jujube pit. ROI measurements were performed on monochromatic 40 keV images (A) and routine 120 kVp images (B). ROI, region of interest; HU, Hounsfield unit; Min, minimum; Max, maximum.
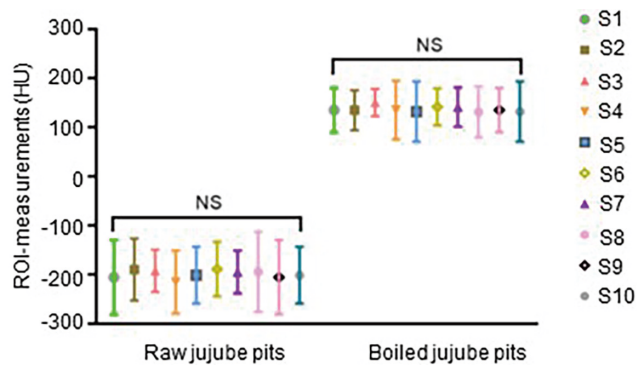

Figure S2 CT measurements of mean-HU comparing 10 commercially available types with raw and boiled states. NS, not statistically significant; CT, computed tomography, ROI, region of interest; HU, Hounsfield unit.