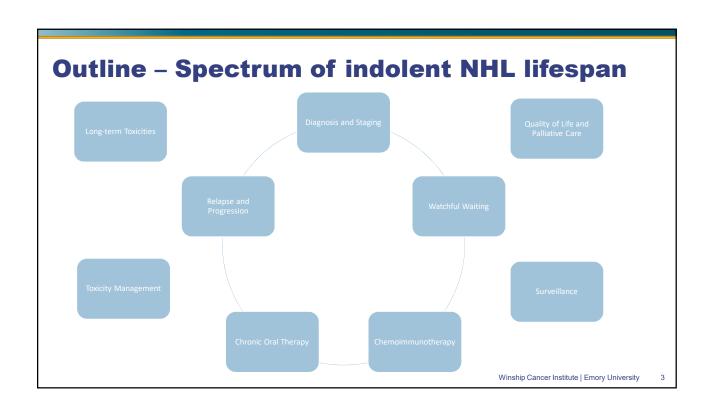
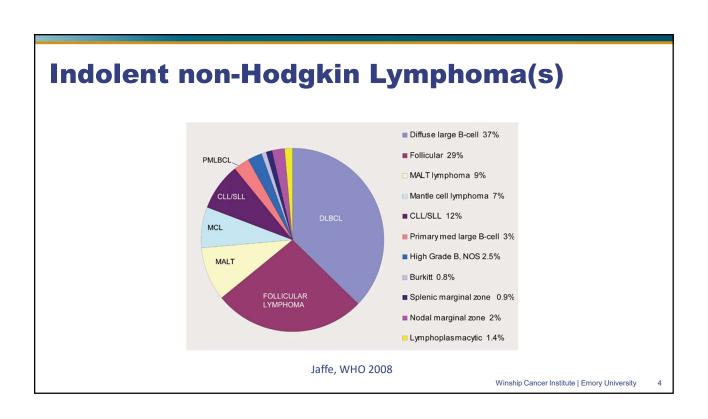


#### **Disclosures**

- Consulting/Advisory Services:
  - Abbvie, Celgene, Novartis, Pharmacyclics, Seattle Genetics
- Research Funding:
  - BMS, Janssen, Novartis, Takeda, BioInvent, Atara, Seattle Genetics, LAM
- I have received grant funding from ASH and LRF





# **Clinical Behavior of Indolent Lymphomas**

There are many common features of indolent lymphomas

Positives	Challenges
Frequently non-aggressive	Considered "incurable"
Limited symptoms	Long course of treatments
Good prognosis	Challenging to explain to others
Many effective therapies (including oral)	Frequently require repeated treatments
May not require treatment upfront	

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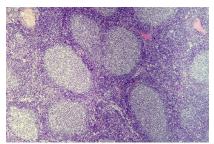
# **How is it Diagnosed?**

- Many patients have no symptoms
  - Progressive swelling
  - Incidental finding (looking for something else)
  - Routine physical
- Others can have symptoms
  - Unexplained fevers
  - Drenching sweats
  - Weight loss
  - Fatigue?
  - Others depending on site of disease

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# **Making the Correct Diagnosis**

- Excisional biopsy (surgically removing the lymph node) is preferred whenever possible.
  - Some forms of indolent NHL can't be biopsied this way (CLL, MALT, others)
- Hematopathology review is important



Lymph node architecture is critical to making diagnosis

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# **Making the Correct Diagnosis**

- Each subtype has a specific signature and/or genetic characteristic
- These help make the diagnosis and can be prognostic

	Follicular lymphoma	Marginal zone lymphoma	CLL/SLL
<u>Immunophenotype</u>			
CD20 CD5 CD10	+ - +	+ - -	+ + -
Genetic Rearrangement	t(14;18)	t(11;18) - sometimes	Varied

# **Evaluation of a Newly Diagnosed Patient**

- Critical to make the right diagnosis
- CT scan (sometimes PET/CT)
- Appropriate prognostic evaluation
- HIV and Hepatitis Assessment
- Bone marrow biopsy (sometimes)
- · Other assessments as indicated
- Next steps: Discussion with your team about the diagnosis, stage, prognosis, and appropriate treatment

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# Things to discuss with your oncologist

- Lymphoma subtype and stage
- General prognosis
- Your symptoms
- Why you may/may not need treatment right away
- Other medical conditions
- Life events
- Quality of life priorities
- Is there a clinical trial option?

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# You may not need immediate therapy

Decision to start treatment requires a discussion with your physician

GELF Criteria for Follicular Lymphoma

Largest mass < 7cm
≤ 3 sites with diameter > 3cm

Limited lymphoma cells in blood

Normal blood counts

No fluid collections

No organ damage or risked organ damage

No major spleen enlargement

Solal-Celigny, NEJM, 1993

iwCLL Criteria for CLL/SLL

Anemia or low platelets

Enlarged spleen

Massive lymph nodes

Rapid doubling time of WBC count

Disease-related symptoms

Hallek, Blood, 2008

\*\*\*\*There is NO absolute WBC cutoff that requires Treatment in CLL\*\*\*\*

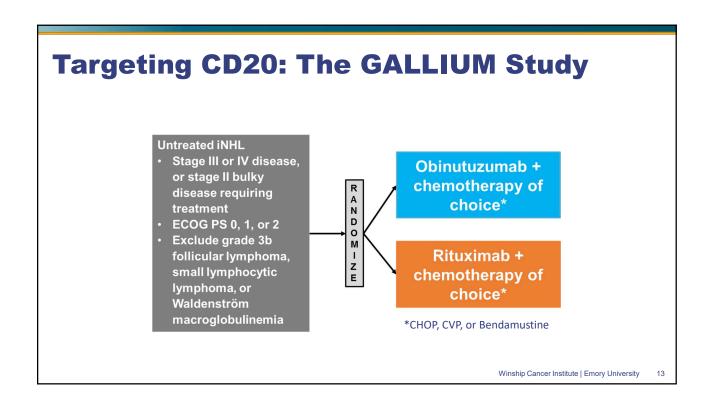
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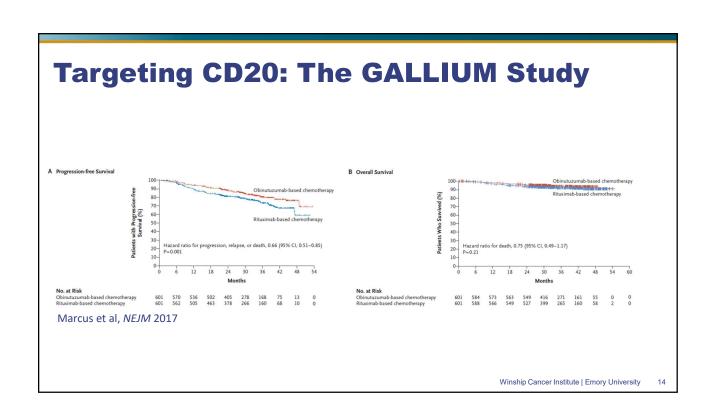
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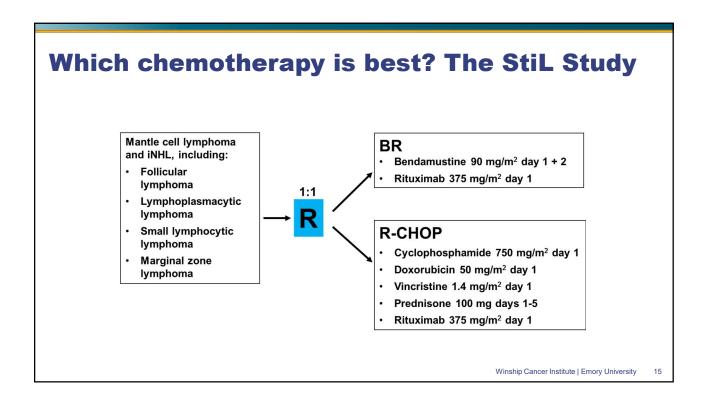
# **Treating Follicular Lymphoma**

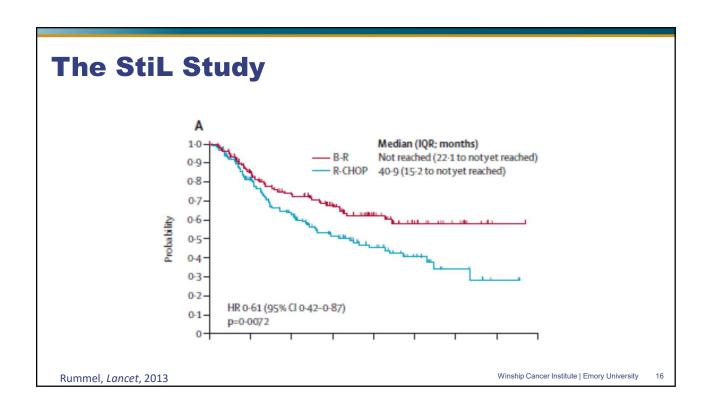
- There are many options for your first treatment of follicular lymphoma
  - Is chemotherapy required?
  - Which chemotherapy?
  - Which antibody?
  - Is radiation appropriate and/or necessary?
  - · What about maintenance?
- Essential to consider your goals, expected prognosis, other medical conditions, lifestyle, and overall disease-related expectations when choosing treatment.

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#### **Side Effects**

CD20 Antibodies (Rituximab/Obinutuzumab)
Infusion Reaction
Low antibody levels / recurrent infection
Rare neurologic complications
Low blood counts (worse with obinutuzumab)

Side effects are different for every patient and not always predictable.

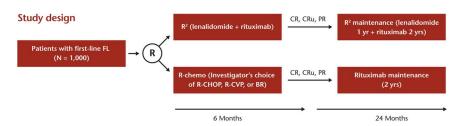
СНОР	Bendamustine
Hair Loss	Low blood counts (can be persistent)
Low blood counts	Nausea/vomiting
Peripheral Neuropathy	Rash
Rare – heart failure	Others
Prednisone side effects	
Nausea/vomiting	
Others	

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# What about non-chemotherapy treatment?

Relevance Study



• No clear improvement over chemotherapy but may be similar in outcome

Fowler et al, ASCO 2018

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# **Initial Therapy Summary**

- Important to use a monoclonal antibody targeting CD20
- Combination partner can vary
- Important to consider side effects of treatment
- Most patients respond well to treatment and remain in remission

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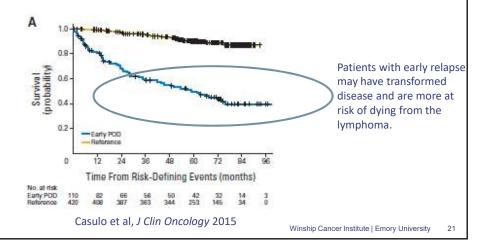
# **Maintenance Therapy**

- Different ways to give maintenance
- Best data are for after R-CHOP
  - Role of maintenance after bendamustine is less clear
- · Caution on side effects of prolonged treatment
- There is NO long-term survival benefit with maintenance therapy
- Goal is to prolong time before more treatment is needed
- Should be a discussion with your doctor and not a foregone conclusion

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# Follow-up after treatment for FL

• Time to first relapse is an important predictor of long term outcome



# **Considerations for relapsed FL**

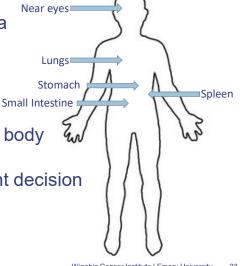
- · Many of same considerations as at initial diagnosis
  - · Patient fitness and other medical conditions
  - · Overall goals of treatment and patient lifestyle
  - Disease burden (big vs small nodes)
  - Symptoms
- Time to relapse often influences treatment decisions
- Most patients will relapse several times over the course of the disease
- Consider clinical trial

# **Marginal Zone Lymphoma**

- Several types of marginal zone lymphoma
  - Splenic MZL
  - MALT lymphoma (extranodal)
  - Nodal MZL

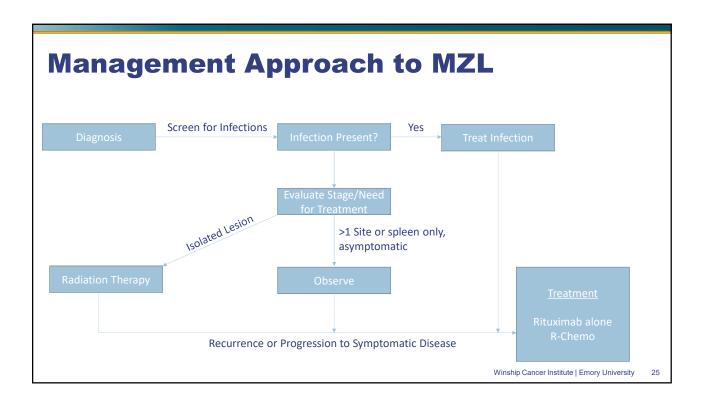






**MZL** associated with infections

- Hepatitis C
- H. Pylori (stomach ulcers)
- C. Psittaci (ocular)
- Others less common
- Patients with an infectious cause of MZL should receive treatment for the infection first....this can be curative.



#### **Treatment Considerations**

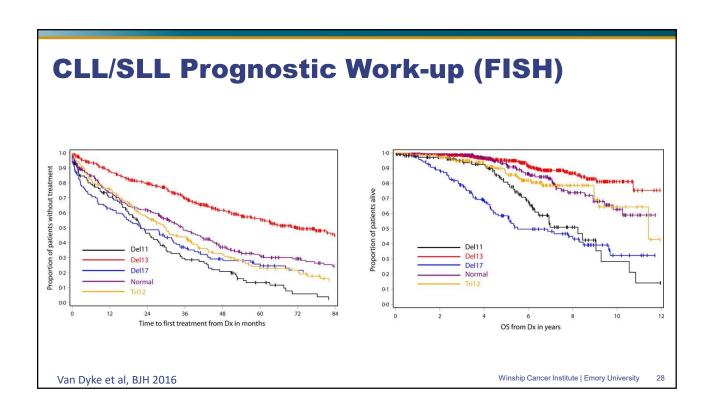
- · Similar treatments to follicular lymphoma
- Patients with isolated lesions can receive radiation therapy
- Most others who require treatment will benefit from a CD20 antibody +/chemotherapy (frequently bendamustine)
- My approach: Frequently rituximab alone followed by bendamustinerituximab if not a great response
- · Maintenance less well established in marginal zone lymphoma

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# Chronic Lymphocytic Leukemia & Small Lymphocytic Lymphoma

- These are basically the same disease
  - · Cells identical under the microscope
  - Prognosis is similar
  - · Treatment is similar
  - Some patients have a WBC count that we follow, others have lymph nodes, some have both
- Prognosis is variable important to complete appropriate work-up

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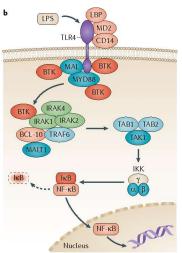
# **Treatment of CLL/SLL is evolving**

- · Recent history:
  - Chemoimmunotherapy (FCR or BR)
  - Limited duration treatment
  - Long-term bone marrow toxicities
  - Some patients receiving FCR can have very long remissions
  - FCR likely better than BR in young patients no difference in those > 65
- Two new studies compared chemo-immunotherapy to ibrutinib

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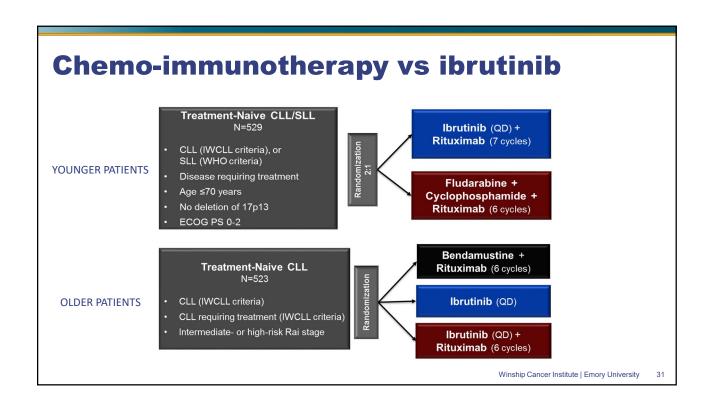
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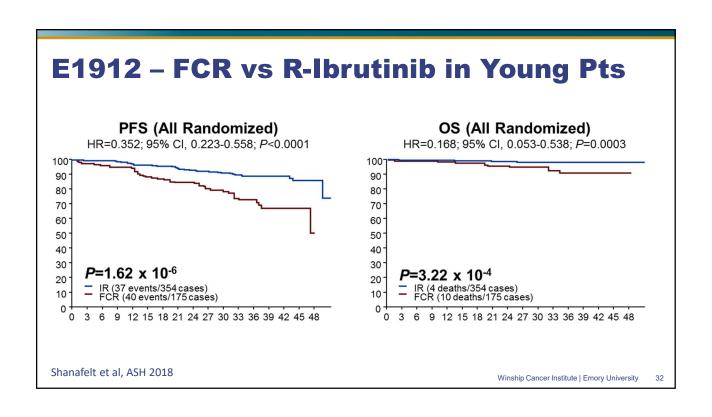
#### Ibrutinib – Bruton's tyrosine kinase inhibitor



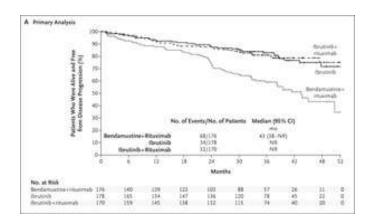
- Oral, daily therapy
- · Administered indefinitely
- Meant to disrupt important pathway in CLL/SLL

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# **Alliance Study – Older Patients**



Woyach et al, NEJM 2018

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#### **Considerations Front-line treatment CLL**

- Chronic vs defined duration of treatment
- Finances
- Long-term mild toxicity vs short-term more significant toxicity
- What is long-term goal? Is time off of therapy meaningful?

Ibrutinib	Chemo-immunotherapy
Chronic, indefinite treatment	6 months of treatment
Expensive	Low blood counts
Diarrhea	Bone marrow toxicity
Bleeding/bruising	Nausea/vomiting
Atrial fibrillation	
Infection risk	
Arthralgias	

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# **New/Emerging Treatments**

- Oral targeted therapies
  - Pi3 Kinase inhibitors
  - BTK Inhibitors
  - Venetoclax
  - · Others (syk, Pikfyve, mTOR) inhibitors
- Immunotherapies
  - Vaccine
  - CAR-T
  - · Monoclonal antibodies
  - · Bispecific antibodies
- · Combination approaches

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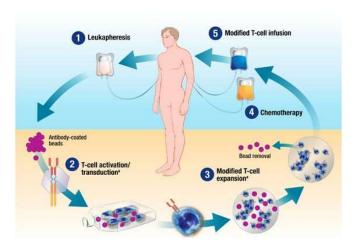
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#### **Incorporation of Novel Therapies in iNHL**

- FDA approvals:
  - · Idelalisib, Duvelisib, Copanlisib
  - Ibrutinib
  - Venetoclax
- Most approvals are for monotherapies combinations may be better
- Caution some combinations are toxic
- Ongoing clinical trials are critical. Patients with relapsed indolent NHL are often ideal candidates due to slow progression of disease.

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# **Chimeric Antigen Receptor (CAR-T)**



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# **CAR-T** currently approved for aggressive NHL

- Used for patients with aggressive or transformed NHL
- Cellular therapies ARE available for other lymphoma types on study
- These therapies typically not considered for untreated patients
- Ask your physician about any potential trials for relapsed patients

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#### **General Considerations**

- Many patients with indolent NHL can live "normal" lives
  - Full time work
  - Families
  - Travel
  - Hobbies
- But.....living with cancer is often a source of stress and anxiety
- Patients need ongoing support

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# **How to Help Loved Ones with Lymphoma**

- Provide support at level desired by patient
- Patient experience fluctuates over the course of the disease
  - Level of day-to-day support may wax and wane depending on disease status, symptoms, side effects, etc.
- Be an advocate for the patient but not their doctor
- Respect their wishes and decisions
- Take notes, ask questions, be another pair of eyes/ears
- If you use the internet, use reputable sources for information:
  - www.LLS.org
  - www.Lymphoma.org

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# **Summary**

- Indolent NHL is a variety of diseases with different treatments
- Many patients are observed (for years) before first therapy initiated
- Patients will be treated on several occasions over their disease course
- Newer therapies are approved/in development, including combinations
- Clinical trial enrollment critical to success of future treatments
- Ask questions and be informed!

#### Thank You!

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#### **Q&A SESSION**

Treatment Advances for Slow-Growing Non-Hodgkin Lymphomas

- Ask a question by phone:
  - Press star (\*) then the number 1 on your keypad.
- Ask a question by web:
  - Click "Ask a question"
  - Type your question
  - Click "Submit"

Due to time constraints, we can only take one question per person. Once you've asked your question, the operator will transfer you back into the audience line.

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Master's level oncology professionals, available to help cancer survivors navigate the best route from diagnosis through treatment, clinical trials and survivorship.

EMAIL: infocenter@LLS.org

- TOLL-FREE PHONE: 1-800-955-4572

- Free Education Booklets:
  - www.LLS.org/booklets
- Free Telephone/Web Programs:
  - www.LLS.org/programs
- Live, weekly Online Chats:
  - www.LLS.org/chat







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Listen in as experts and patients guide listeners in understanding diagnosis, treatment, and resources available to blood cancer patients: <a href="www.thebloodline.org">www.thebloodline.org</a>

Education Videos

Free education videos about survivorship, treatment, disease updates and other topics: <a href="https://www.LLS.org/educationvideos">www.LLS.org/educationvideos</a>

Patti Robinson Kaufmann First Connection Program

Peer-to-peer program that matches newly diagnosed patients and their families: <a href="https://www.LLS.org/firstconnection">www.LLS.org/firstconnection</a>

· Free Nutrition Consults

Telephone and email consultations with a Registered Dietitian: <a href="www.LLS.org/nutrition">www.LLS.org/nutrition</a>

· What to Ask

Questions to ask your treatment team: www.LLS.org/whattoask

Other Support Resources

LLS Community, discussion boards, blogs, support groups, financial assistance and more: www.LLS.org/support



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